3in1 TECHNIC ATR
ALL TERRAIN ROBOT

Assembly & Instruction

Manual

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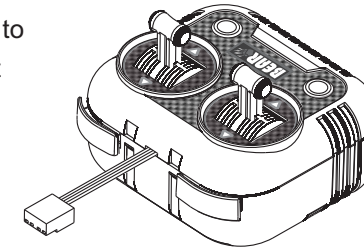
WIRED CONTROL BOX

Product Introduction:

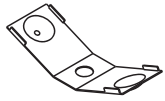
A 3 channel control box, use this controller to move the robot forward, backward, turn left or right, lift or lower.



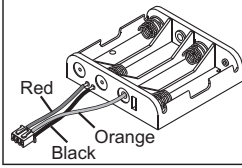
Tools You May Need:

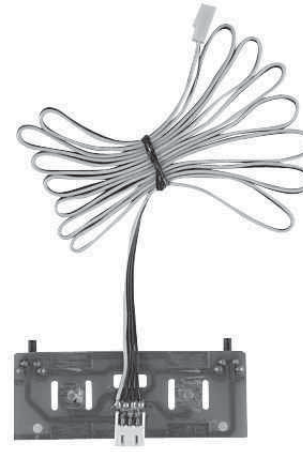
Diagonal Cutter	Screwdriver	4xAA Batteries

Mechanical Parts List:

P1	Metal Plate
	Qty: 2

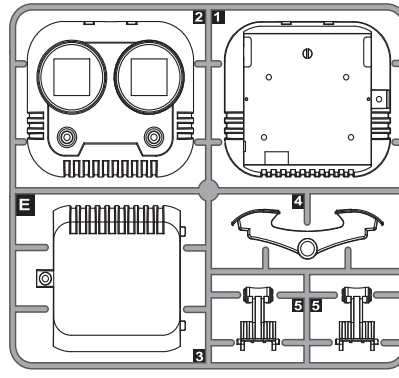
P2	Tapping Screw
	Qty: 5 (3x7)

P3	Battery Holder
	Qty: 1

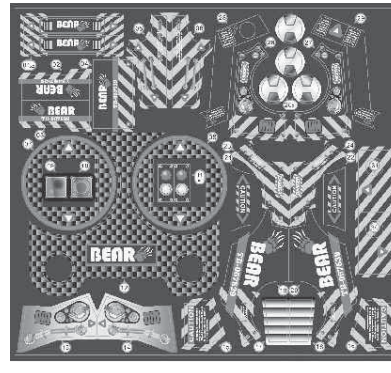
P4	PC Board	Qty
		1

Plastic Part :

E

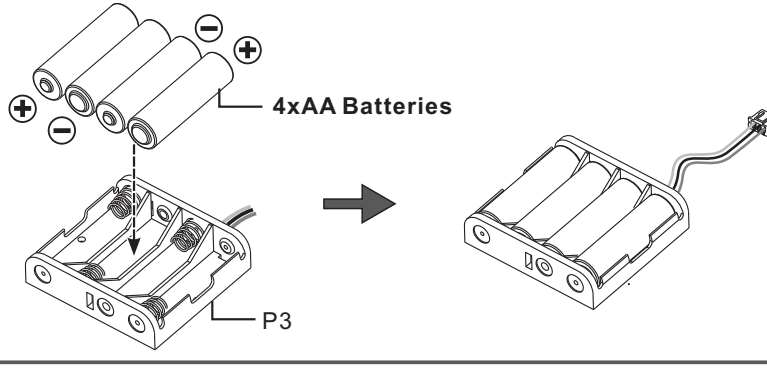


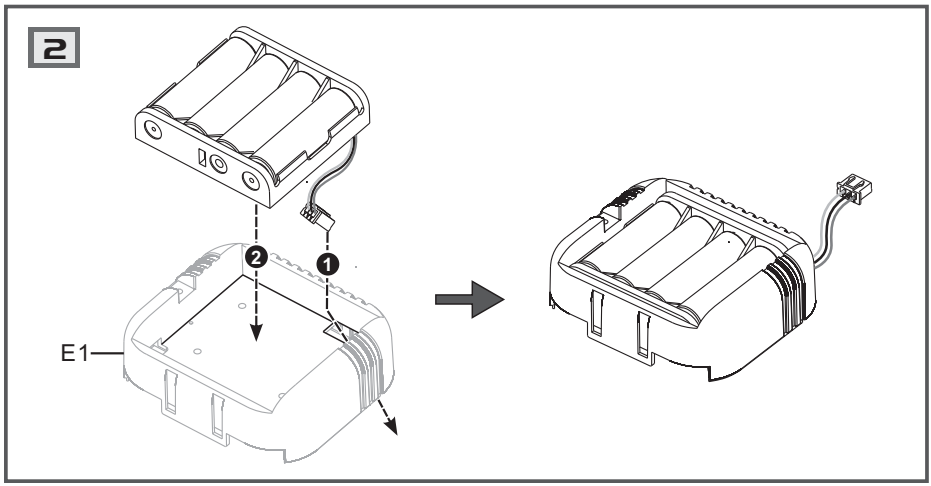
Sticker :

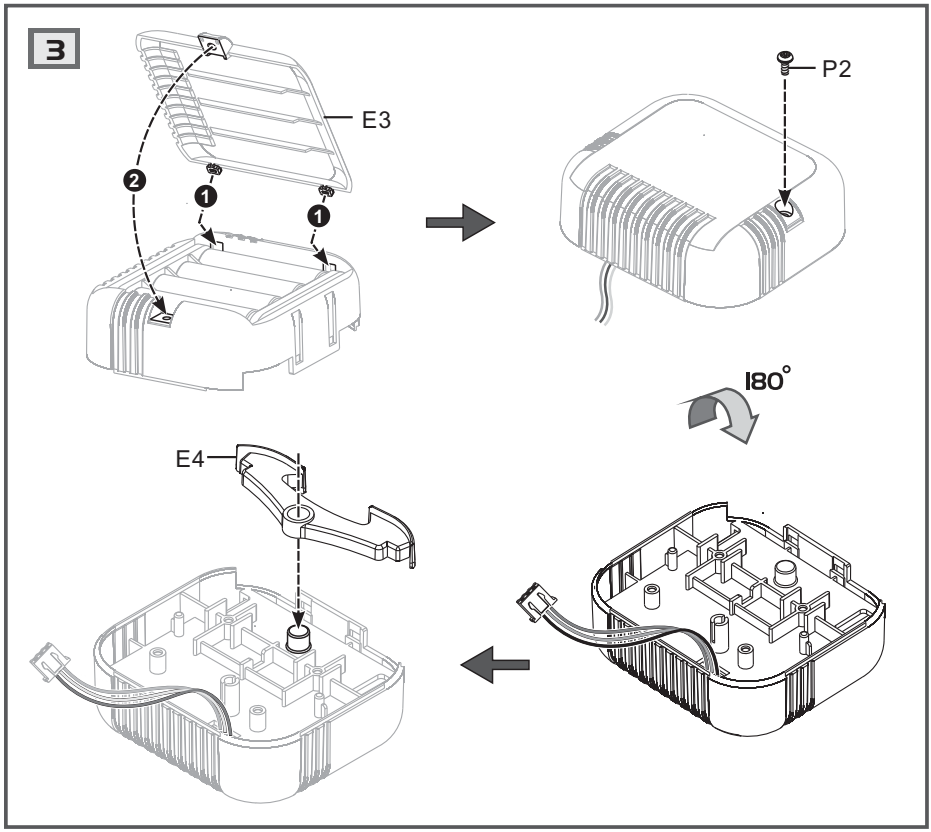


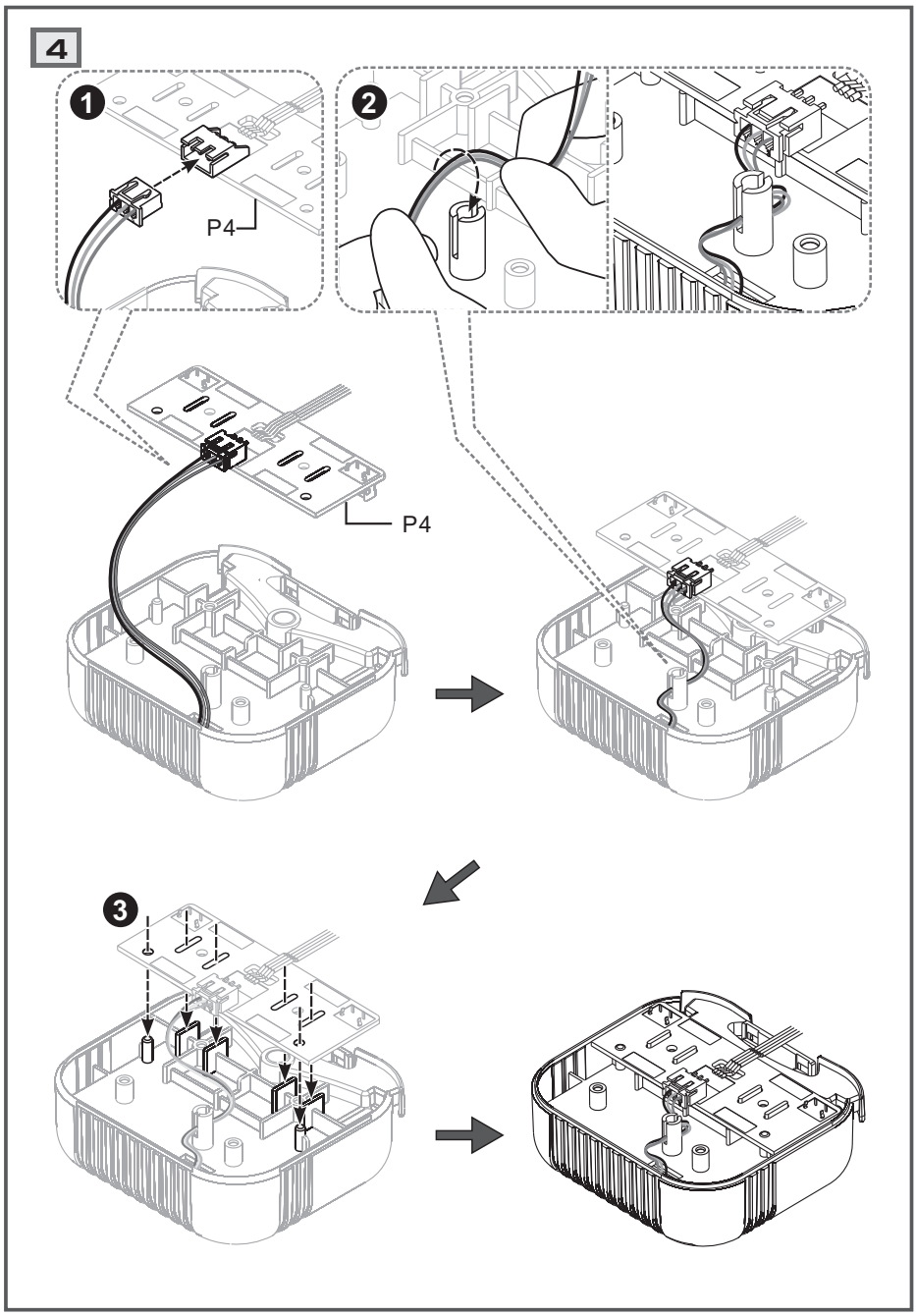
Mechanical Assembly:

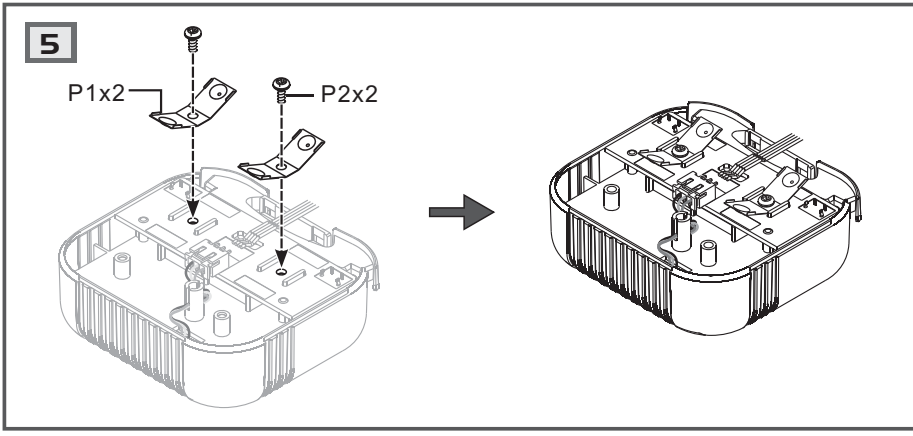
I

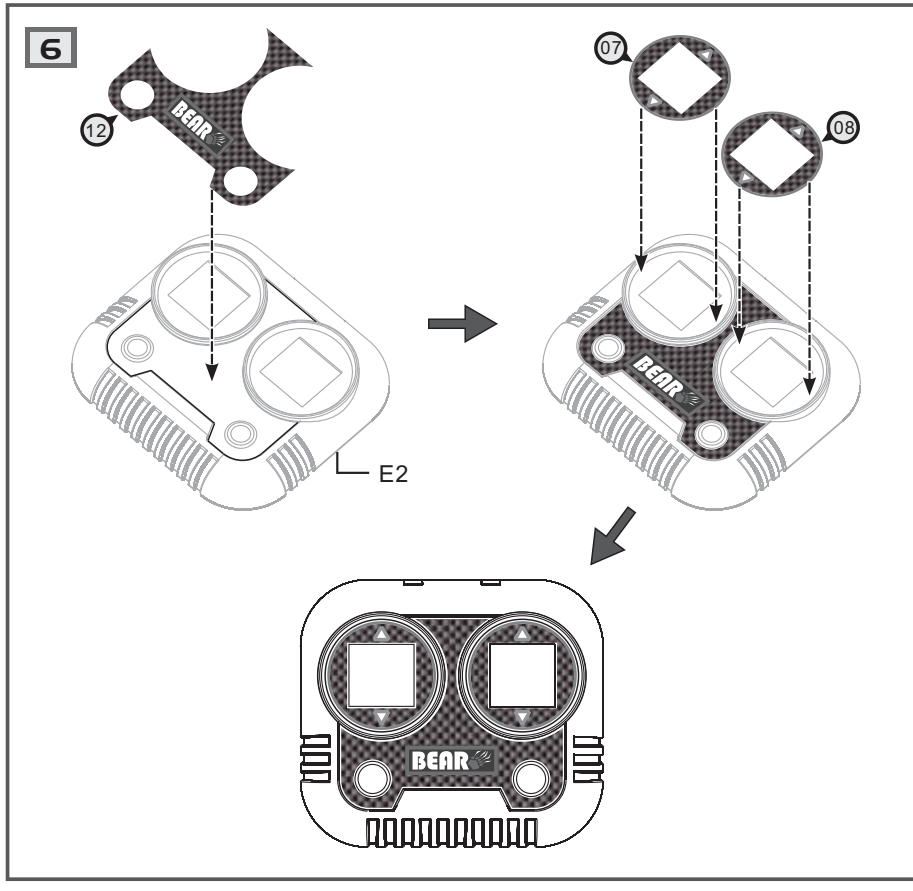



2
E1
2
1

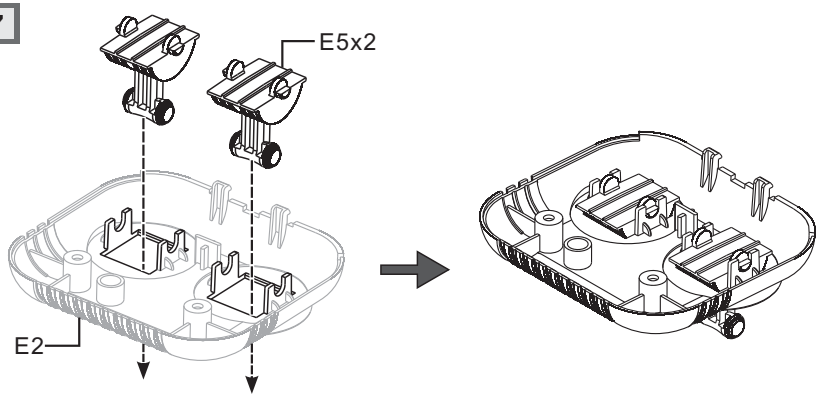

3
E3
2
1
1
P2
180°
E4


4
1
P4
2
P4
3


5
P1x2
P2x2


6
12
BEAR
E2
07
08
BEAR
BEAR

7



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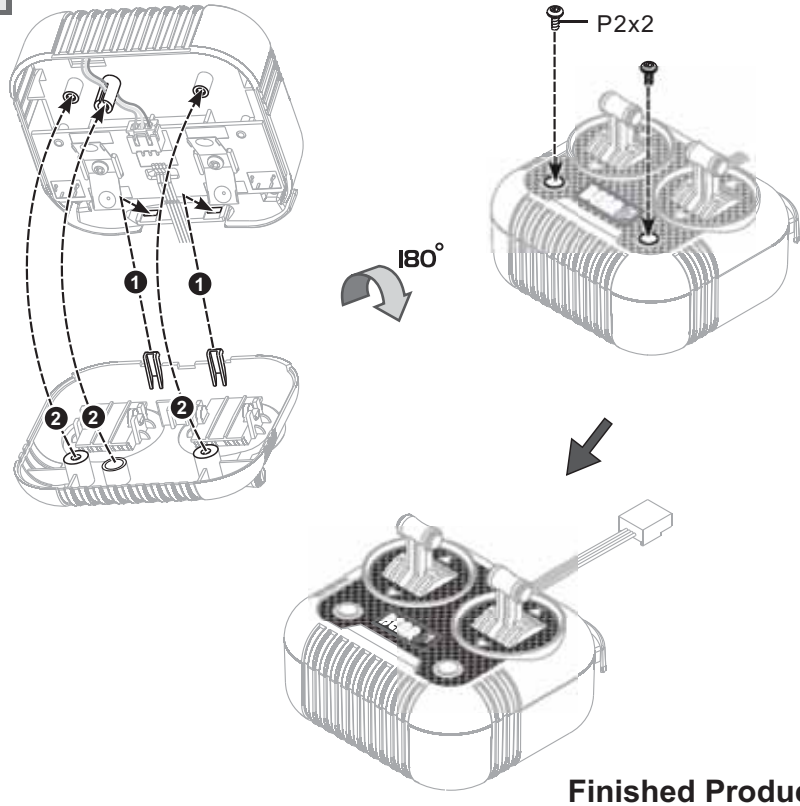


Finished Product!

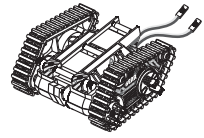
ATR

Product Introduction:

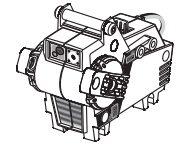
3 in 1 All Terrain Robot is a multifunctional tracked mobile robot.
By the wired remote controller, make your robot move forwards, backwards, turn left or right. Also try to have the Rover conquer different terrain, the Forklift lift the pallet or the Gripper grab.

By using the below 10 modules, assemble your own robot and transform into 3 amazing models: Forklift, Rover and Gripper.

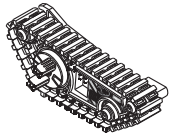
1 Base Module



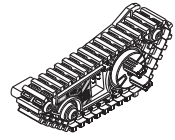
2 Gearbox Module



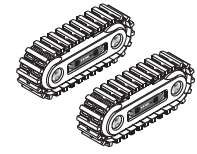
3 Right Front Track Module



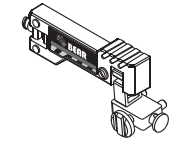
4 Left Front Track Module



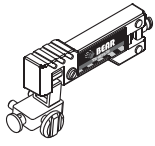
5 Middle Track Modules



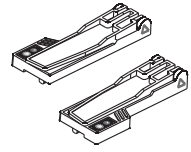
6 Right Arm Module



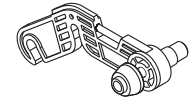
7 Left Arm Module



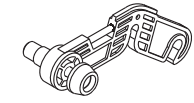
8 Fork Modules

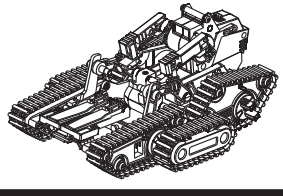


9 Link Module-A

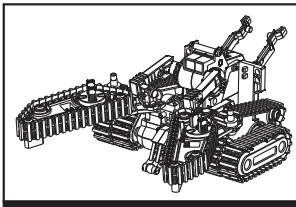


10 Link Module-B

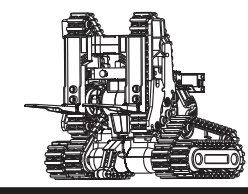




Rover Robot

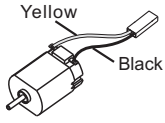


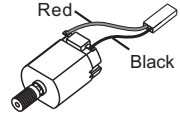
Gripper Robot



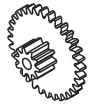
Forklift Robot

Mechanical Parts List:

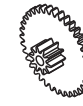
P1 Motor	
	Qty
	2

P2 Motor	
	Qty
	1

P3 Gear	
	Qty
	2

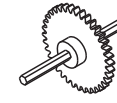
P4 Gear(Grey)	
	Qty
	2

P5 Gear(Brown)	
	Qty
	1

P6 Gear(Yellow)	
	Qty
	4

P7 Gear(Orange)	
	Qty
	1

P8 Gear(White)	
	Qty
	2

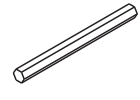
P9 Gear With Shaft	
	Qty
	2

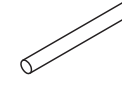
P10 Output Gear(Grey)	
	Qty
	1

P11 Tapping Screw(Short)	
	Qty
	3 (2.6x6)

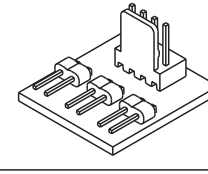
P12 Tapping Screw(Long)	
	Qty
	11 (2.6x10)

P13 Tapping Screw	
	Qty
	14 (2.6x6)

P14 Hex Shaft	
	Qty
	1

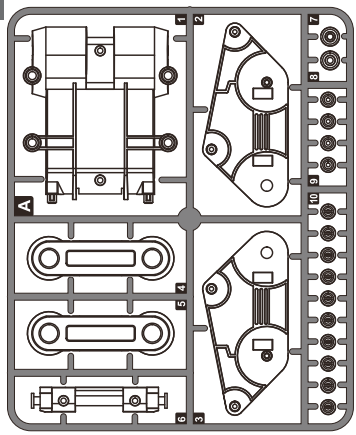
P15 Round Shaft	
	Qty
	3

P16 Steel Ball	
	Qty
	1

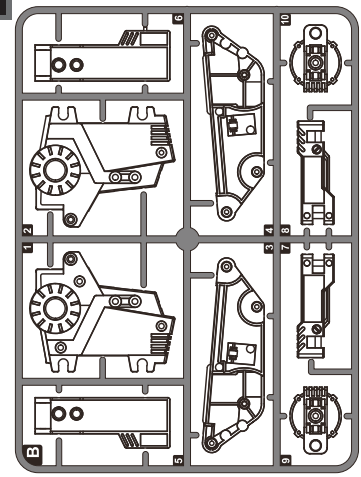
P17 PC Board	
	Qty
	1

Plastic Parts :

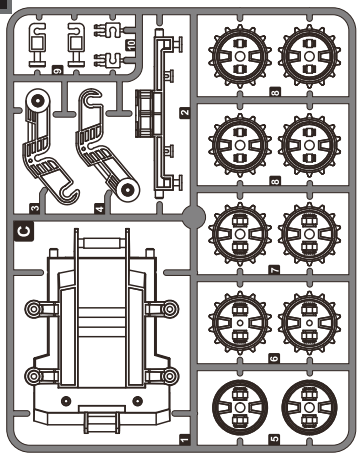
A



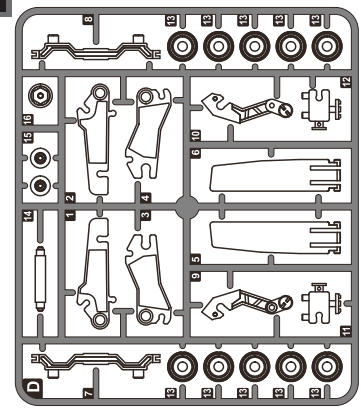
B



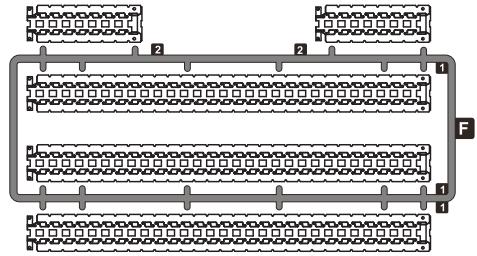
C



D

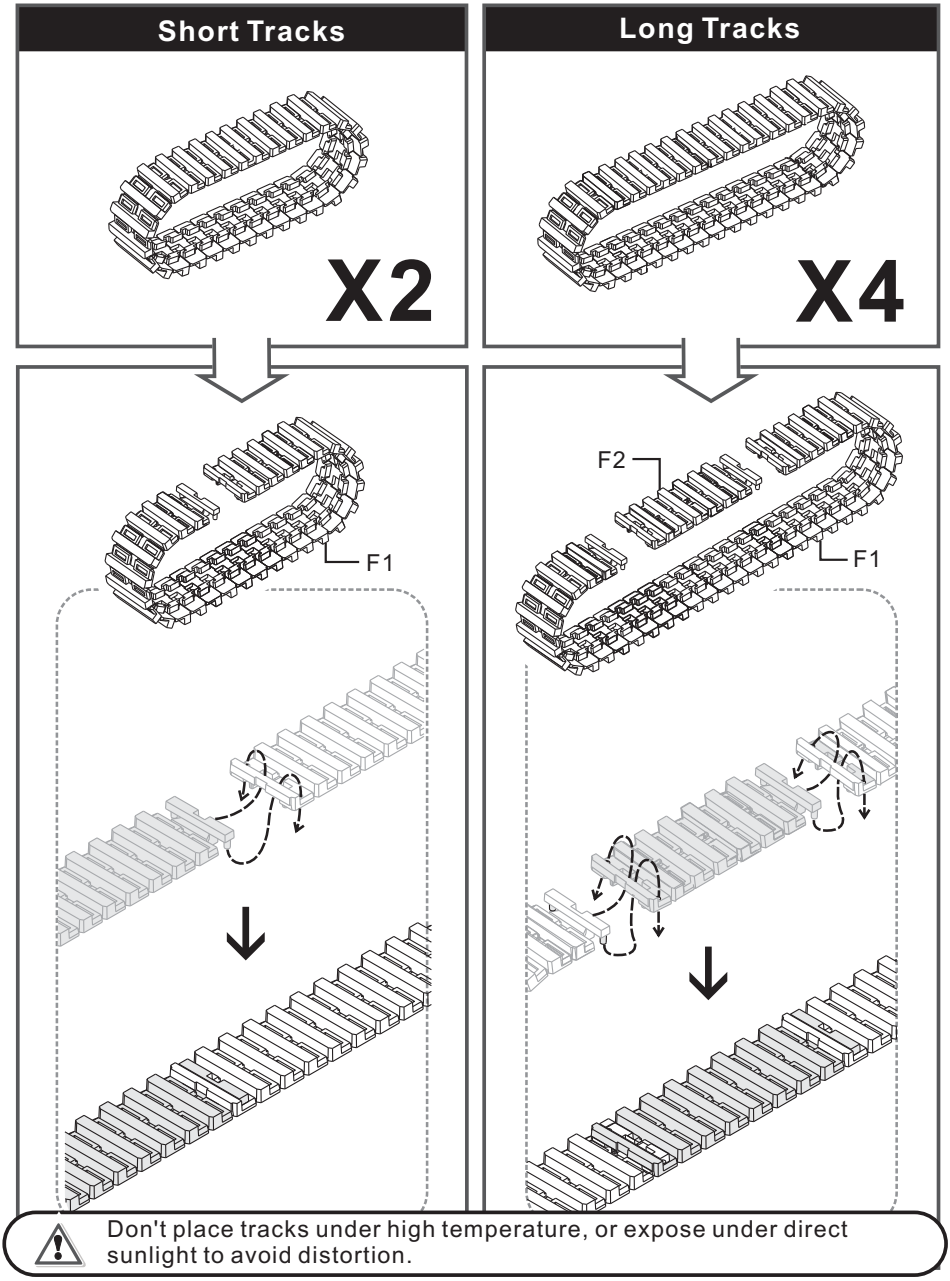


F



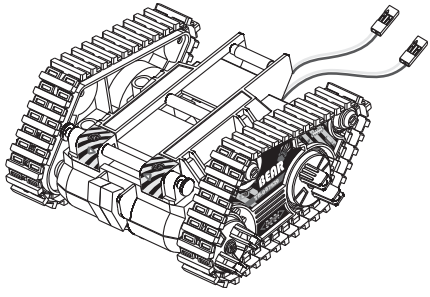
X2

Modules Assembly:

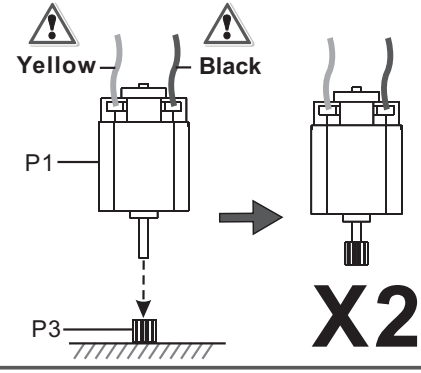


Don't place tracks under high temperature, or expose under direct sunlight to avoid distortion.

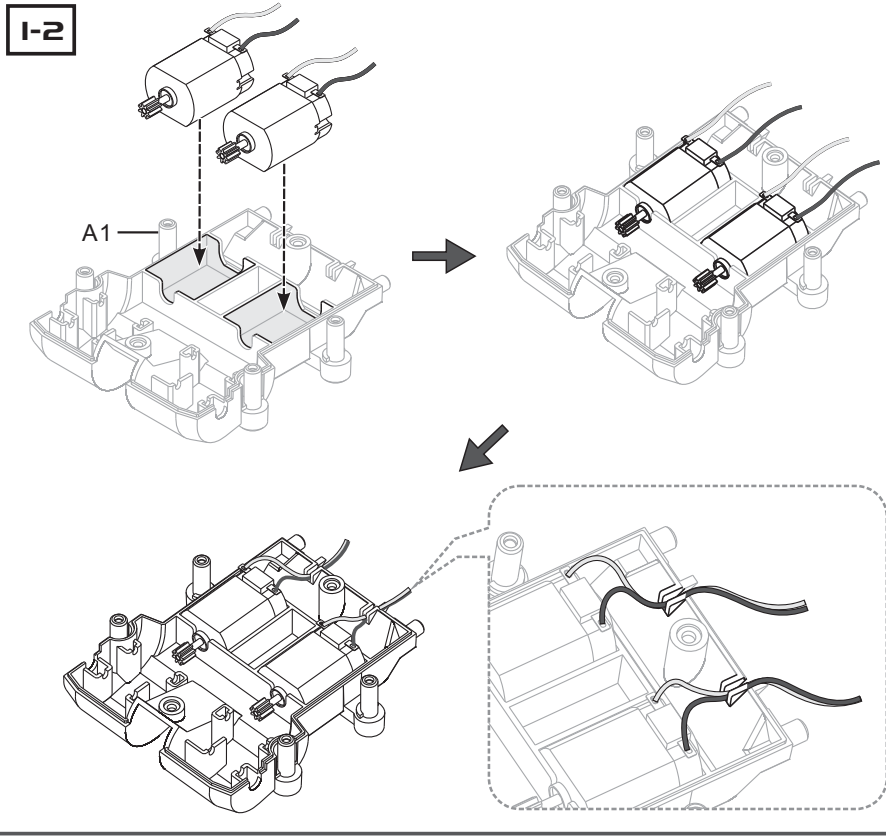
I Base Module

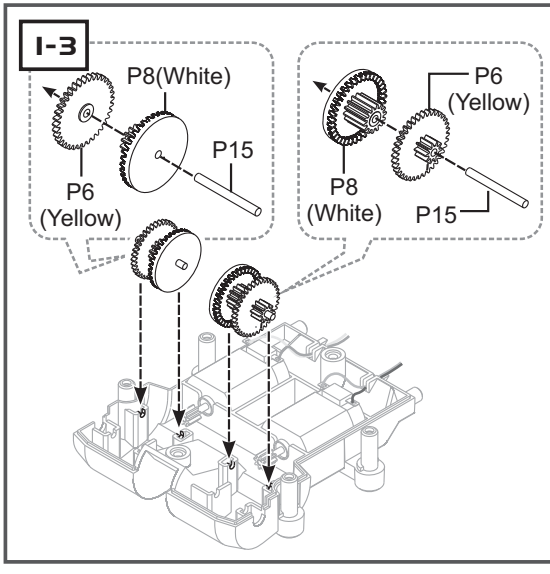


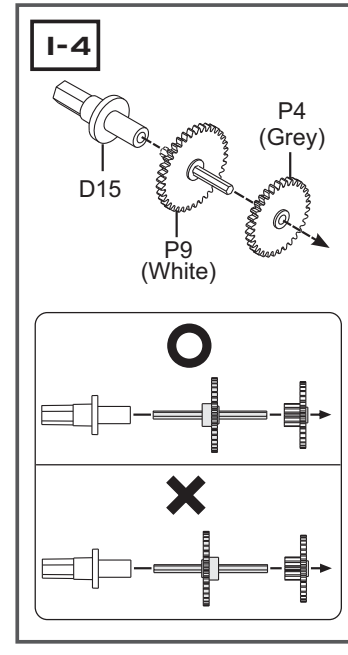
I-1

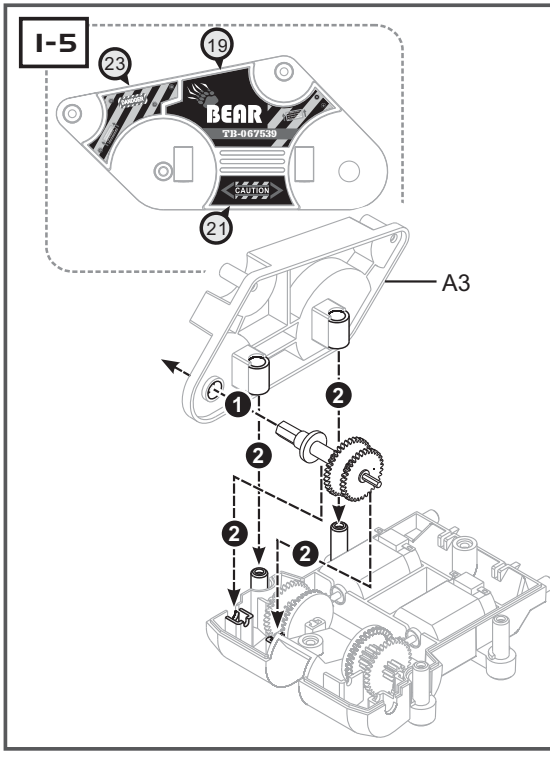


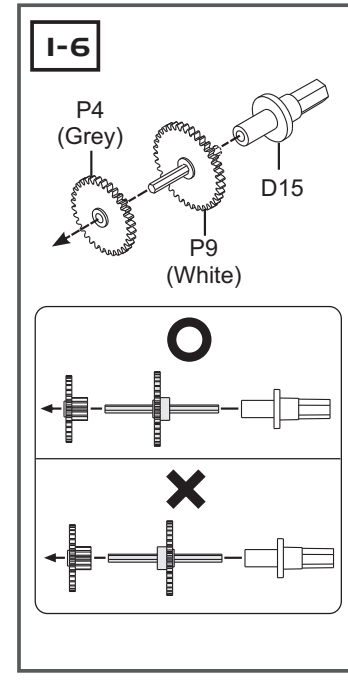
I-2



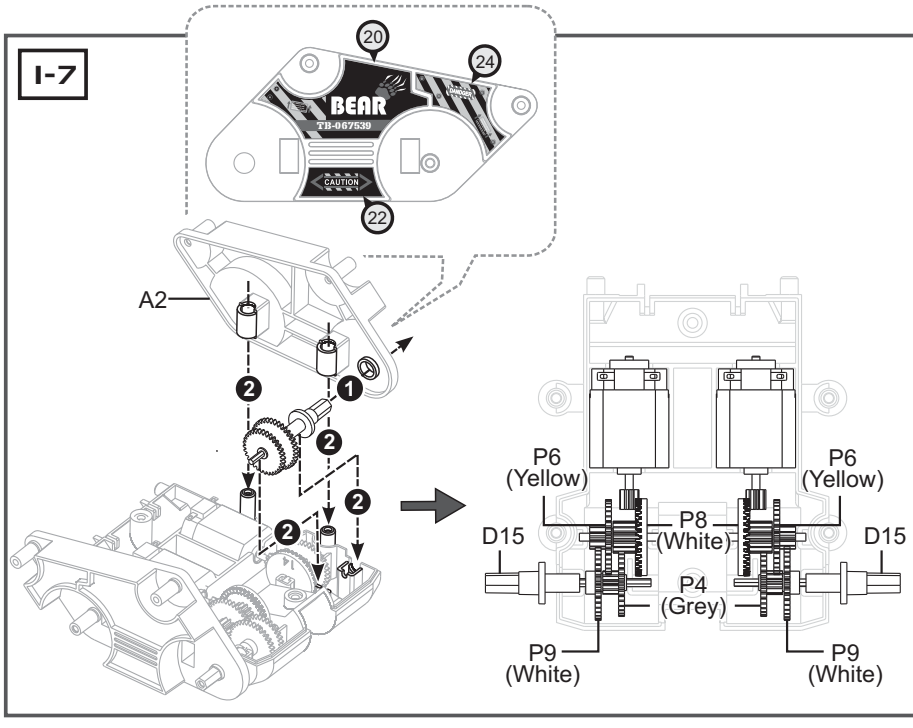

I-3
P8(White)
P15
P6
(Yellow)
P6
(Yellow)
P8
(White)
P15


I-4
P4
(Grey)
D15
P9
(White)

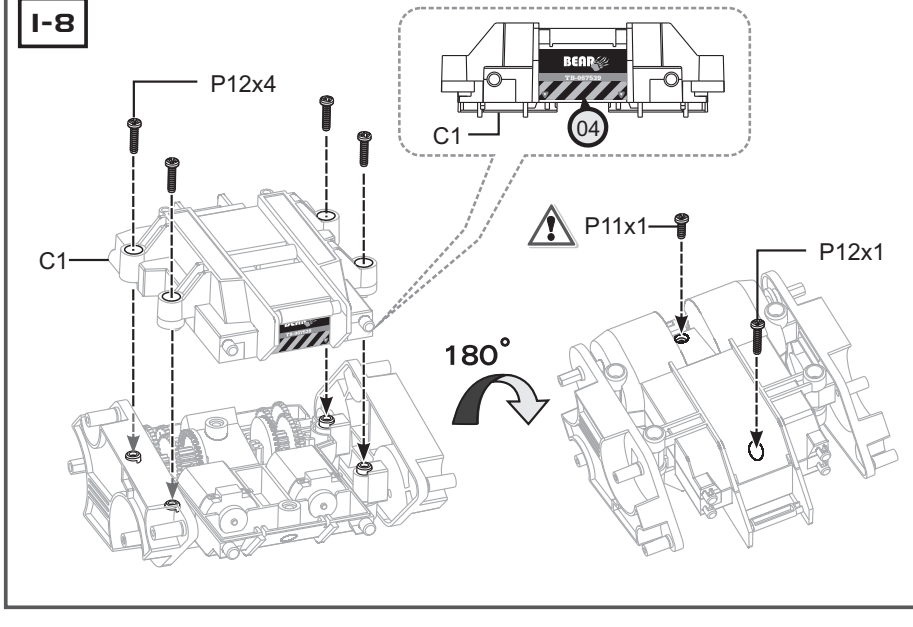

I-5
19
23
BEAR
TB-067539
CAUTION
21
A3
1
2
2
2
2

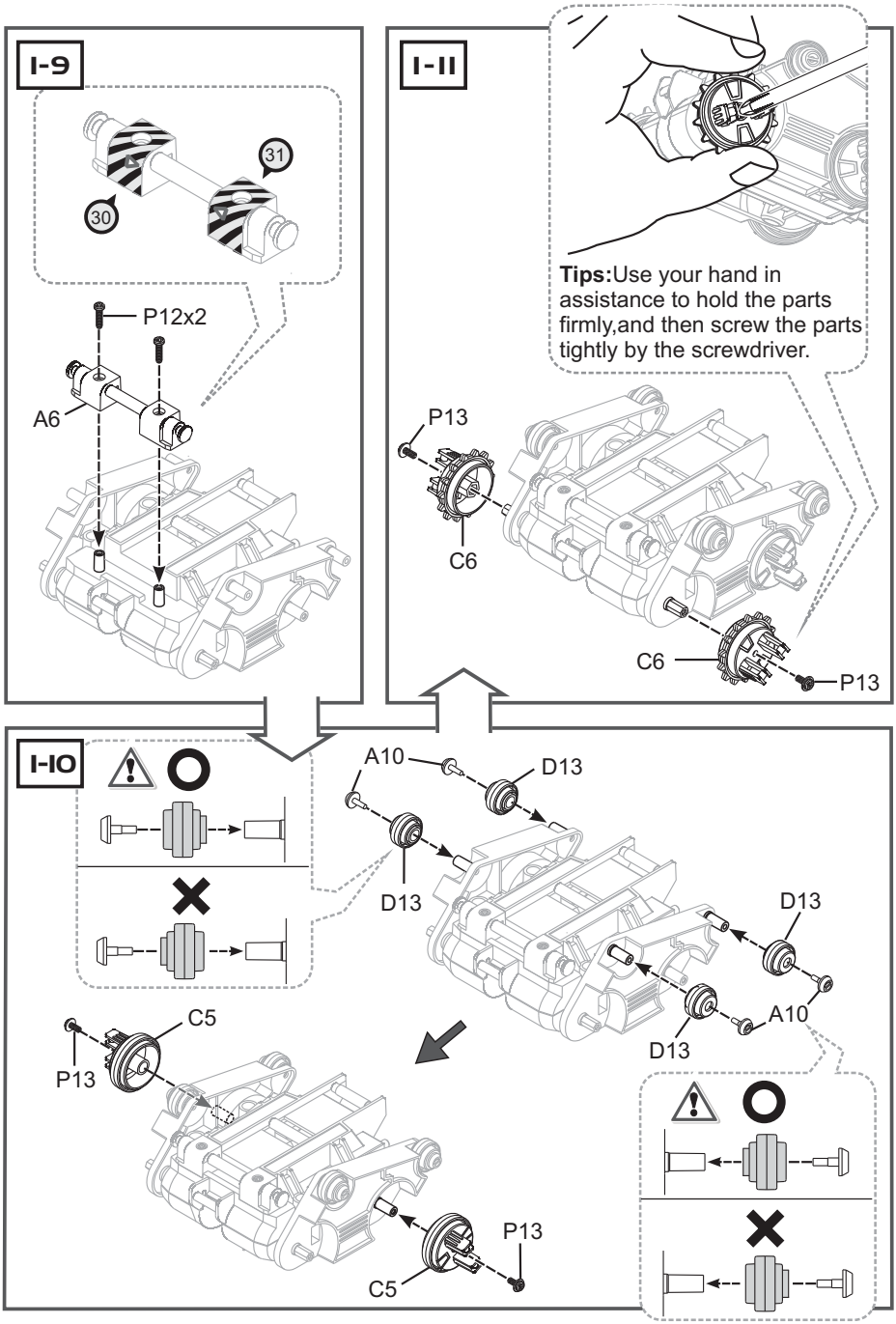

I-6
P4
(Grey)
D15
P9
(White)

I-7

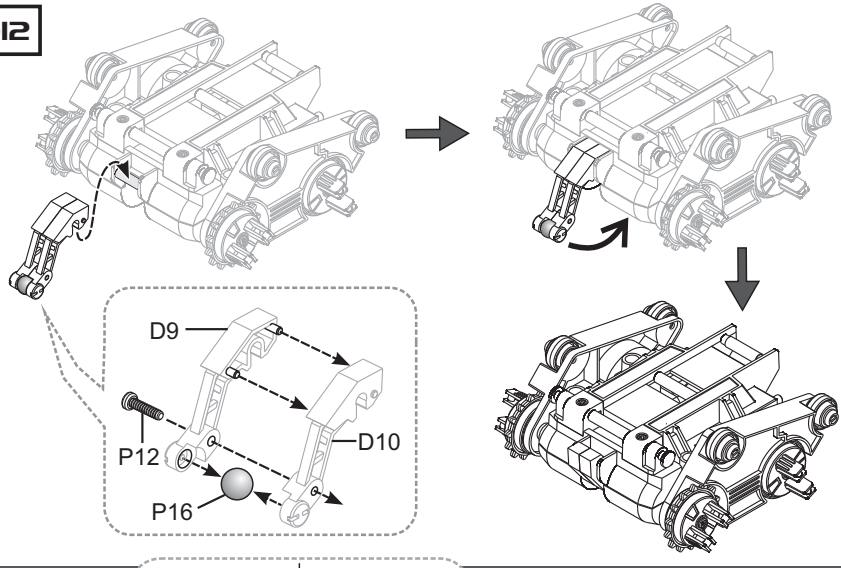

20
24
22
BEAR
CAUTION
A2
2
1
P6
(Yellow)
P6
(Yellow)
P8
(White)
D15
D15
P4
(Grey)
P9
(White)
P9
(White)

I-8

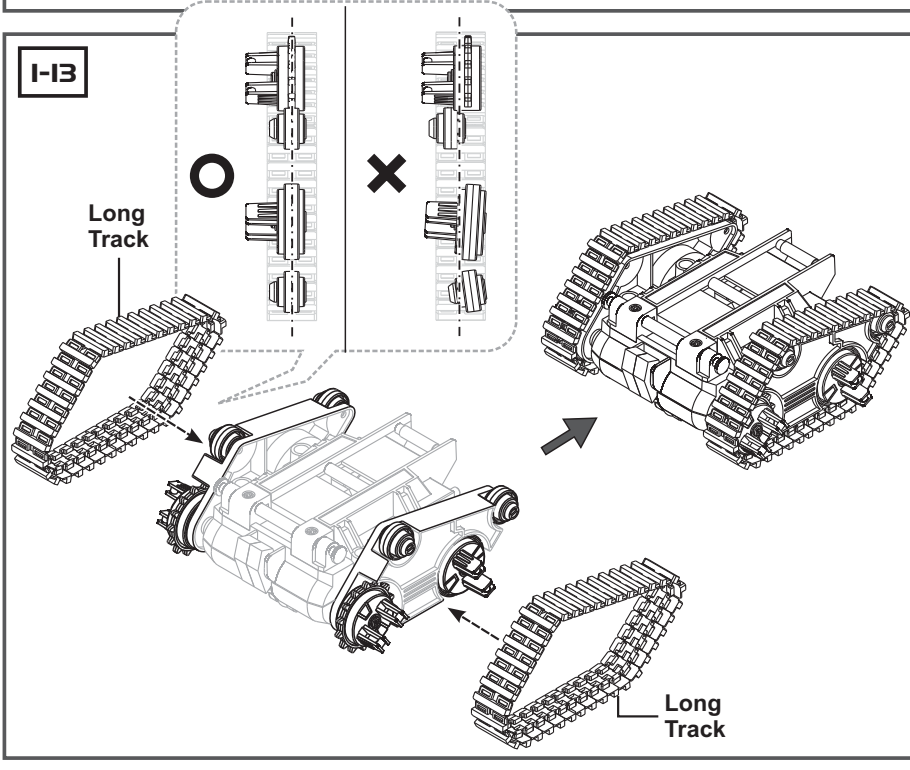

P12x4
C1
04
C1
P11x1
P12x1
180°


I-9
31
30
P12x2
A6
I-11
Tips:Use your hand in assistance to hold the parts firmly,and then screw the parts tightly by the screwdriver.
P13
C6
C6
P13
I-10
A10
D13
D13
D13
A10
D13
C5
P13
P13
C5

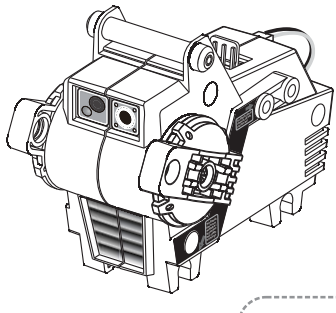
I-12



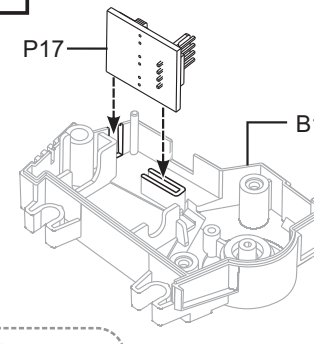
I-13



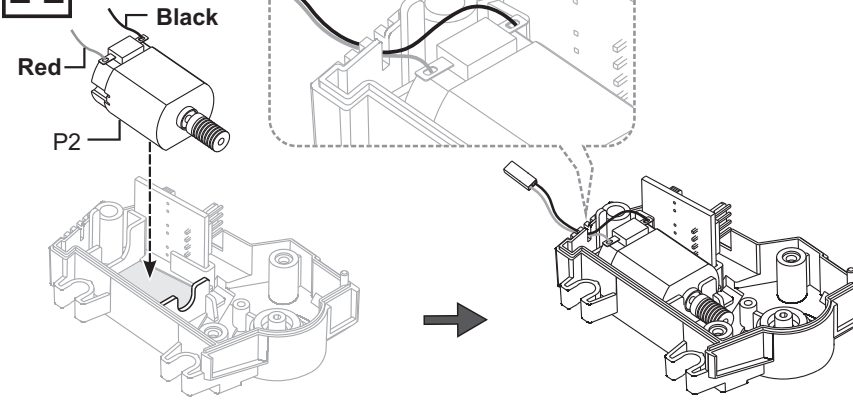
2 Gearbox Module



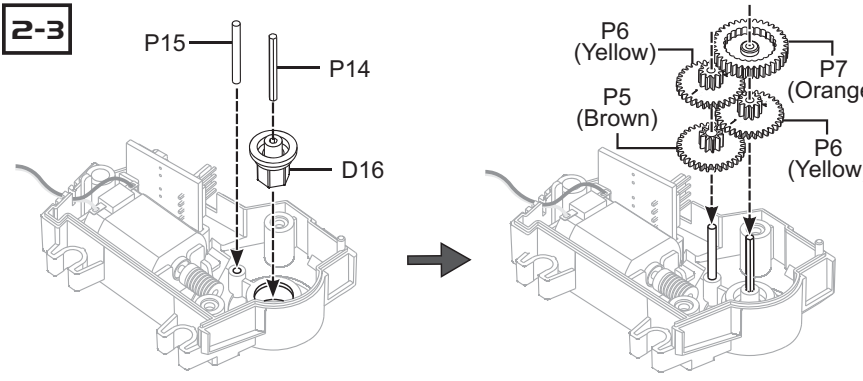
2-1



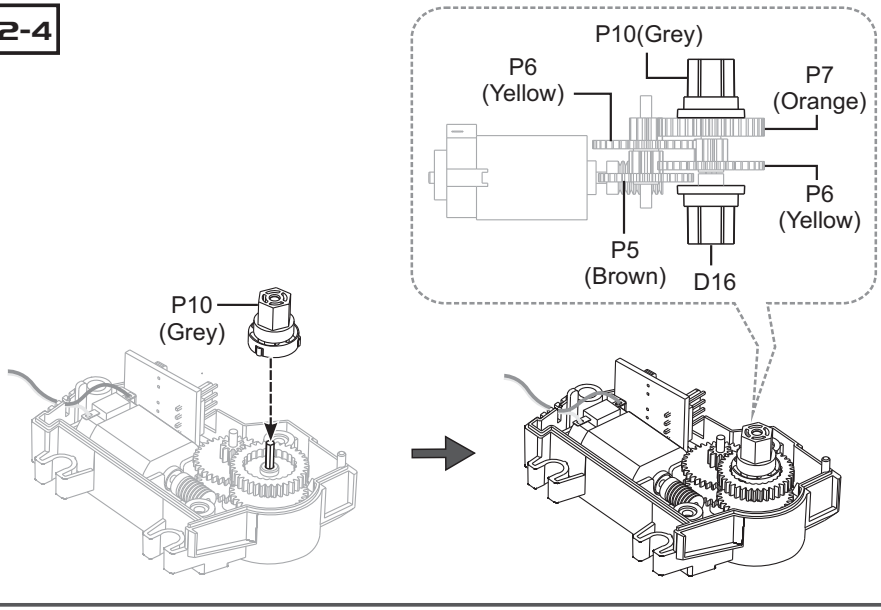
2-2



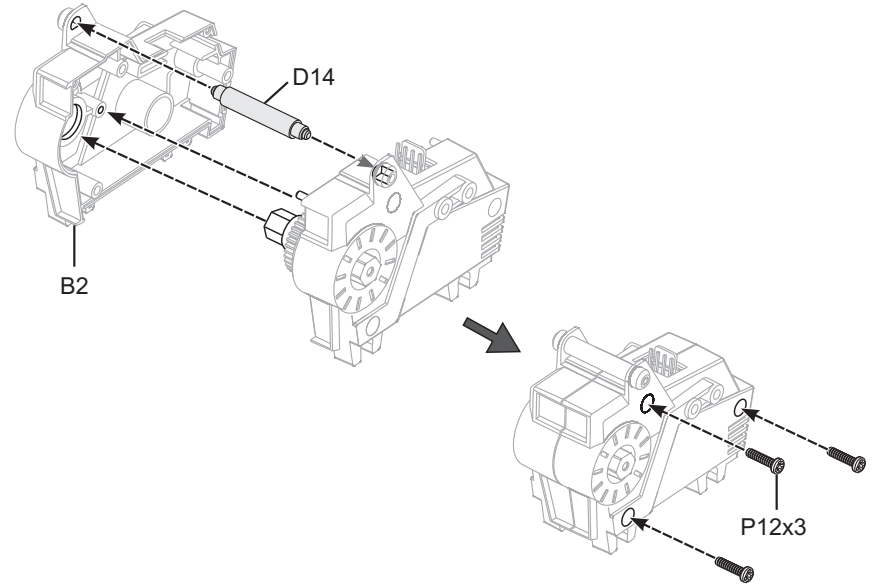
2-3

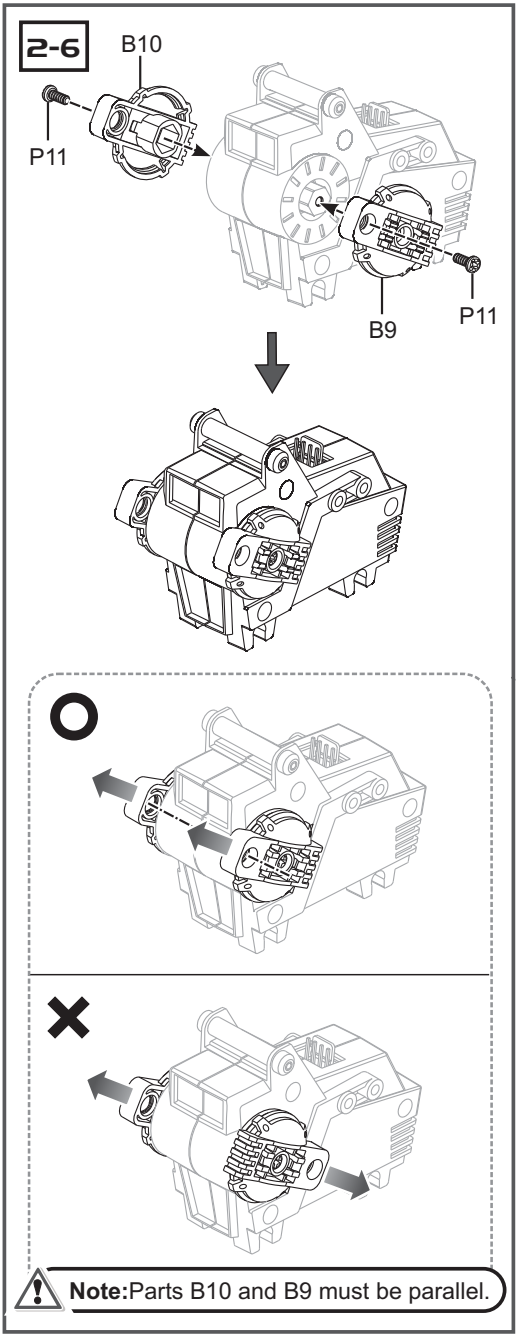


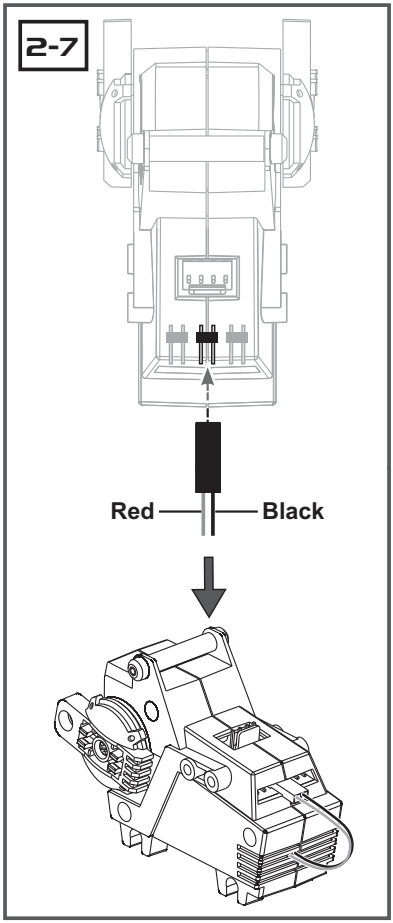
2-4

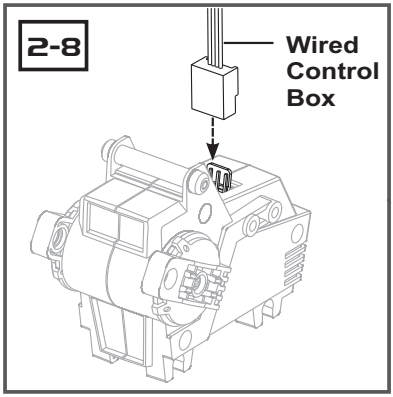

P10(Grey)
P6
(Yellow)
P7
(Orange)
P6
(Yellow)
P5
(Brown)
D16
P10
(Grey)

2-5


D14
B2
P12x3

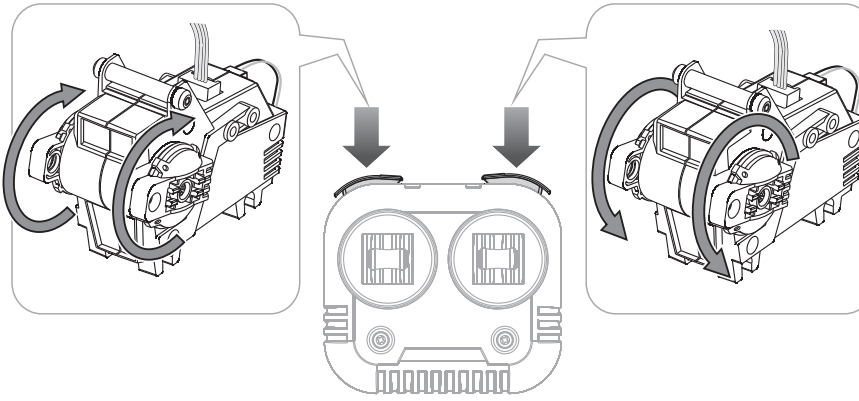

2-6
B10
P11
B9
P11
Note:Parts B10 and B9 must be parallel.

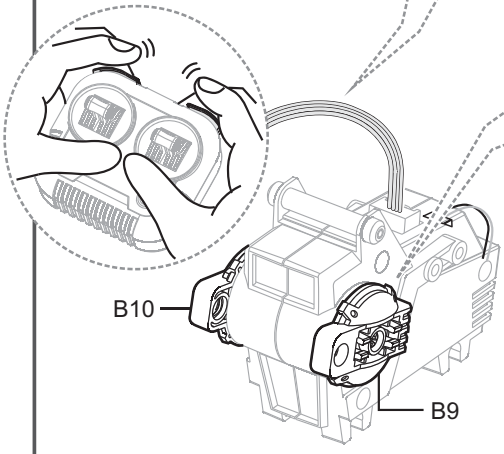

2-7
Red
Black


2-8
Wired
Control
Box

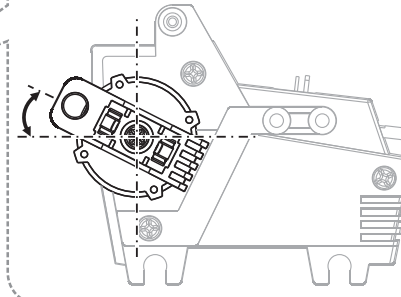
2-9

1 **Tips :**Try and make it run smoothly.

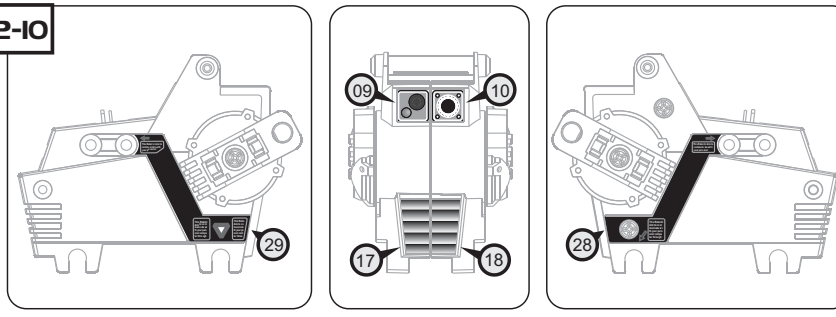




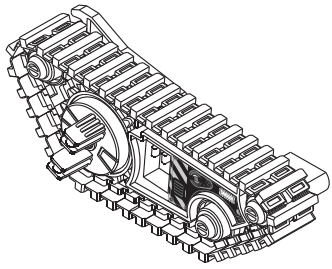
2 **Tips :** Set parts B9 (B10) in the position as shown below .



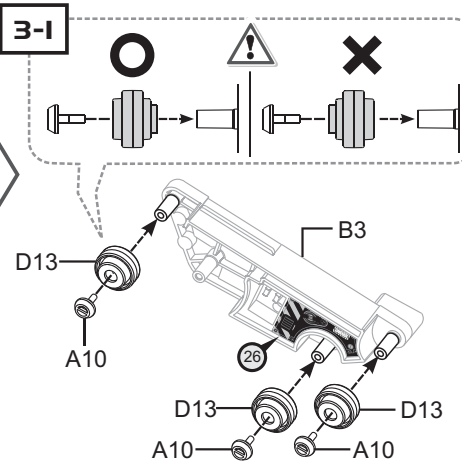
2-10



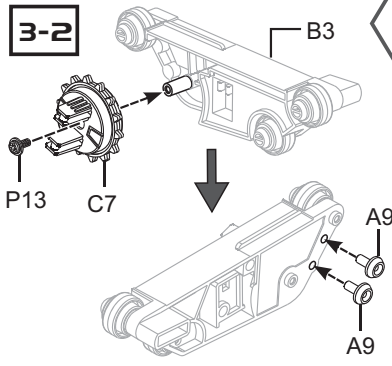
3 Right Front Track Module



3-1

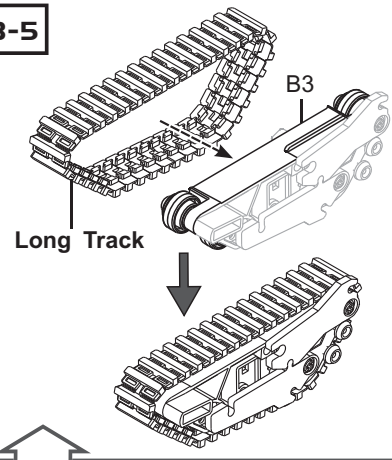


3-2

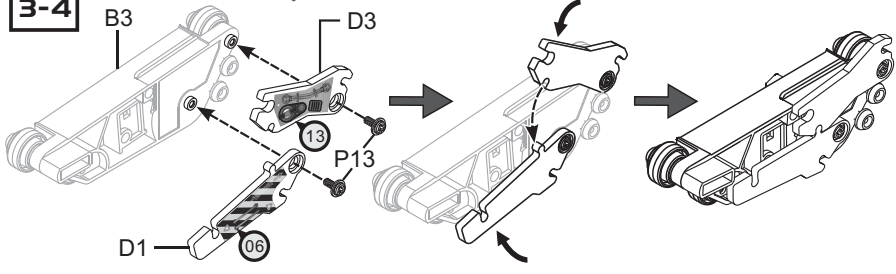


3-3

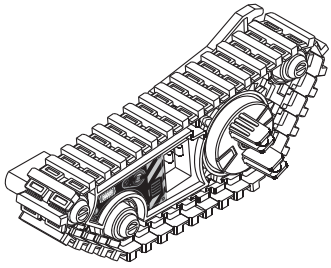
3-5



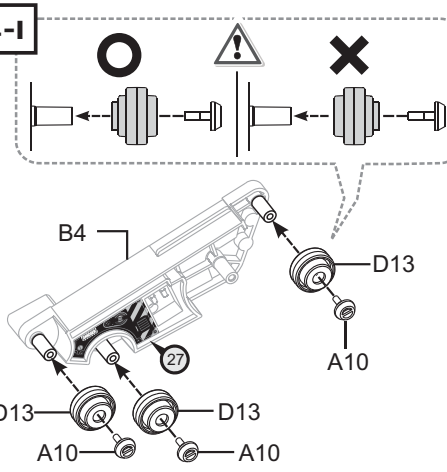
3-4



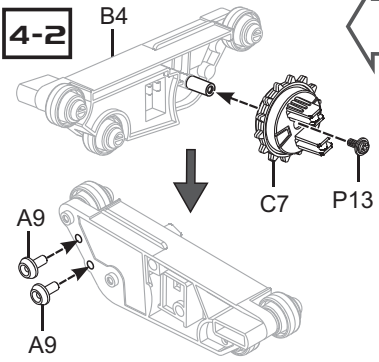
4 Left Front Track Module



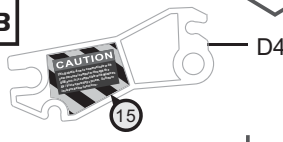
4-1



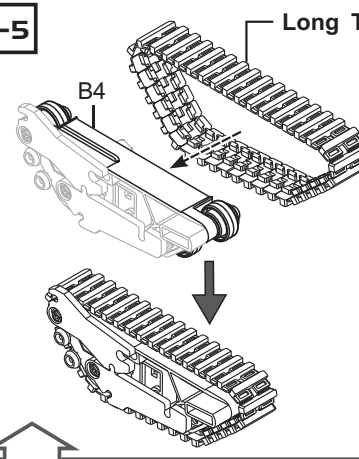
4-2



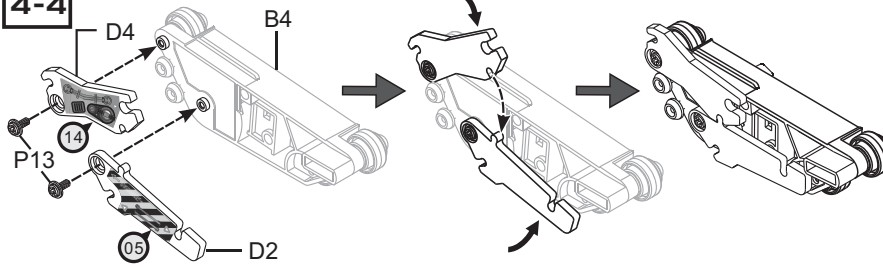
4-3



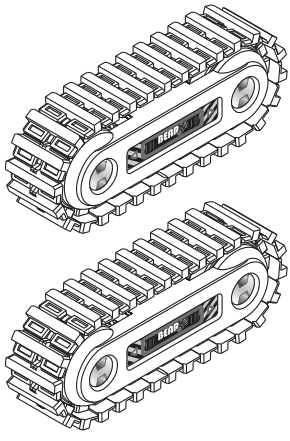
4-5



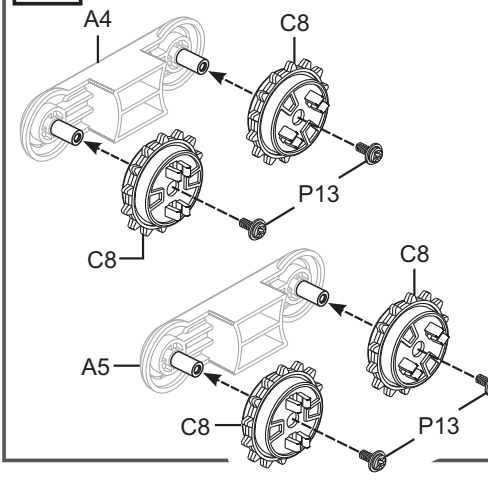
4-4



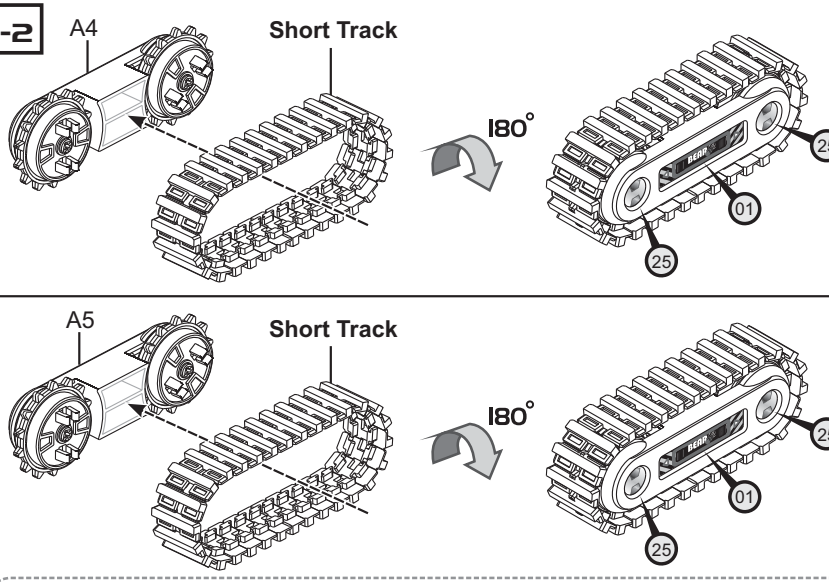
5 Middle Track Modules

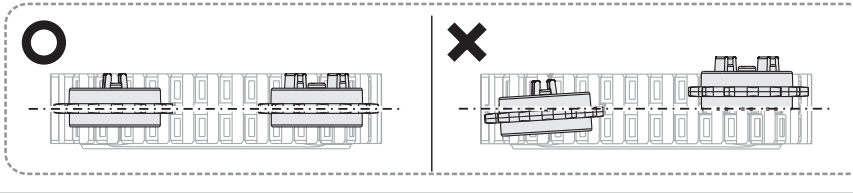


5-1

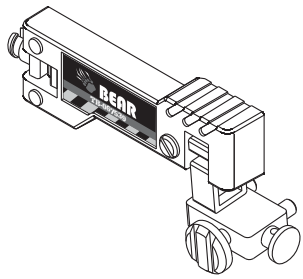


5-2

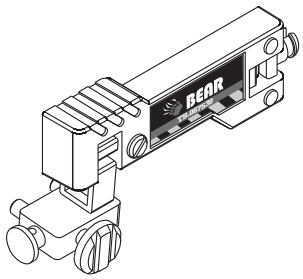




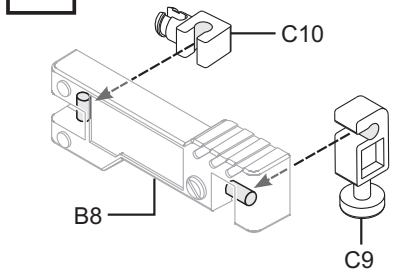
6 Right Arm Module



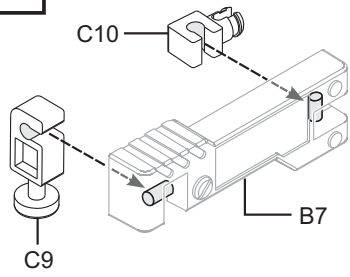
7 Left Arm Module



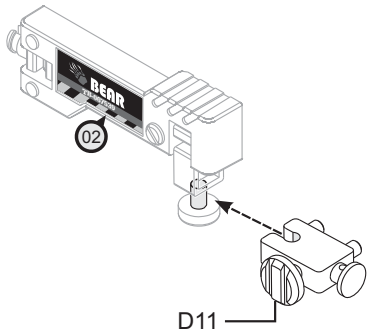
6-1



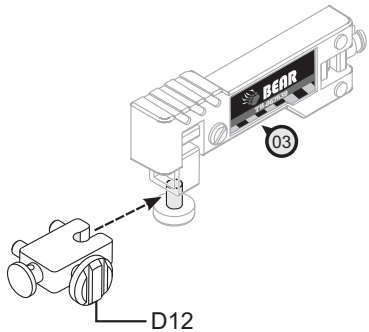
7-1



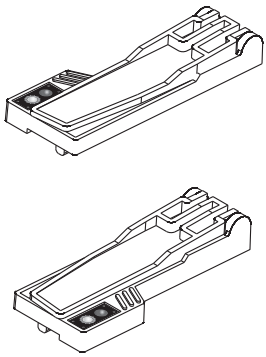
6-2

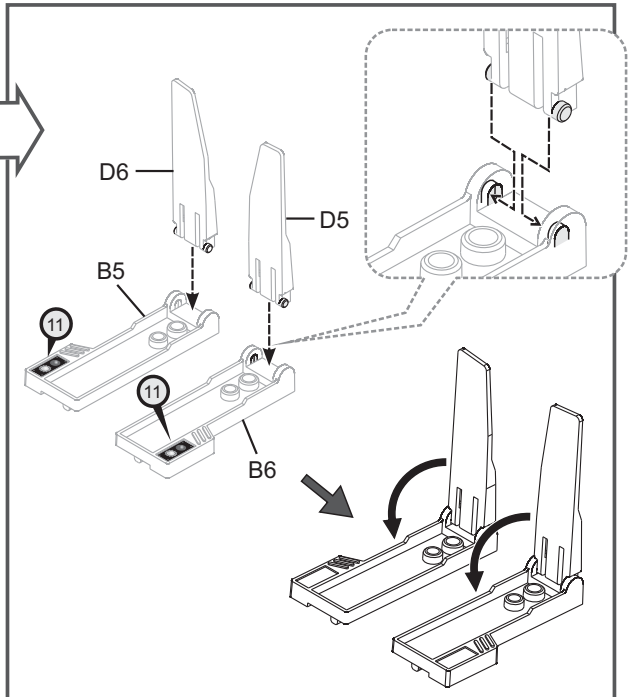


7-2

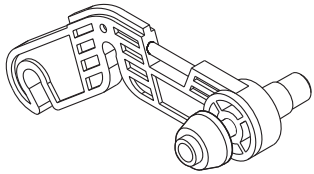


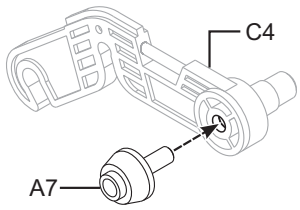
8 Fork Modules



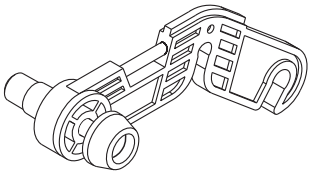


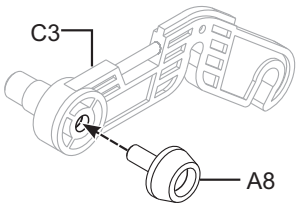
9 Link Module-A





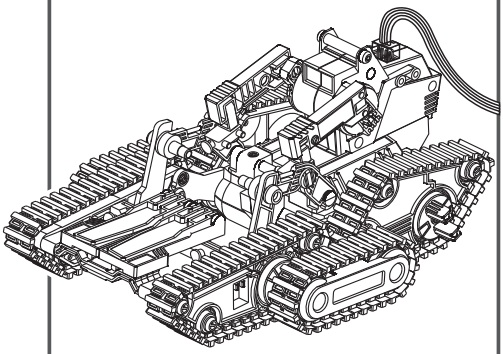
10 Link Module-B



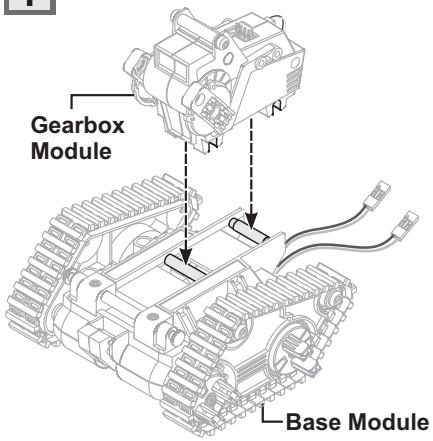


How To Assemble Rover Robot:

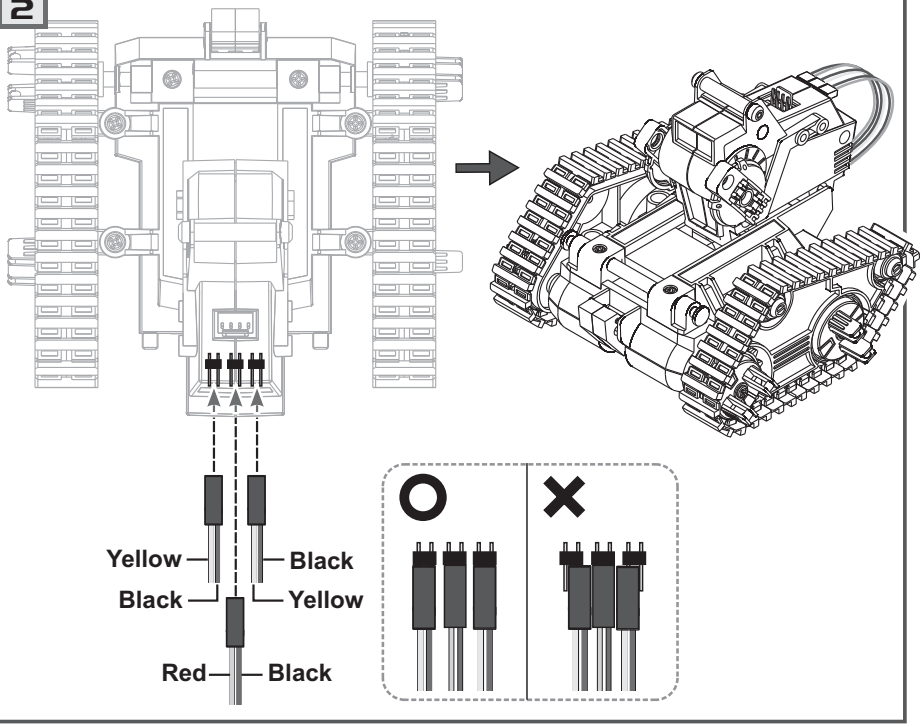
Finished Product

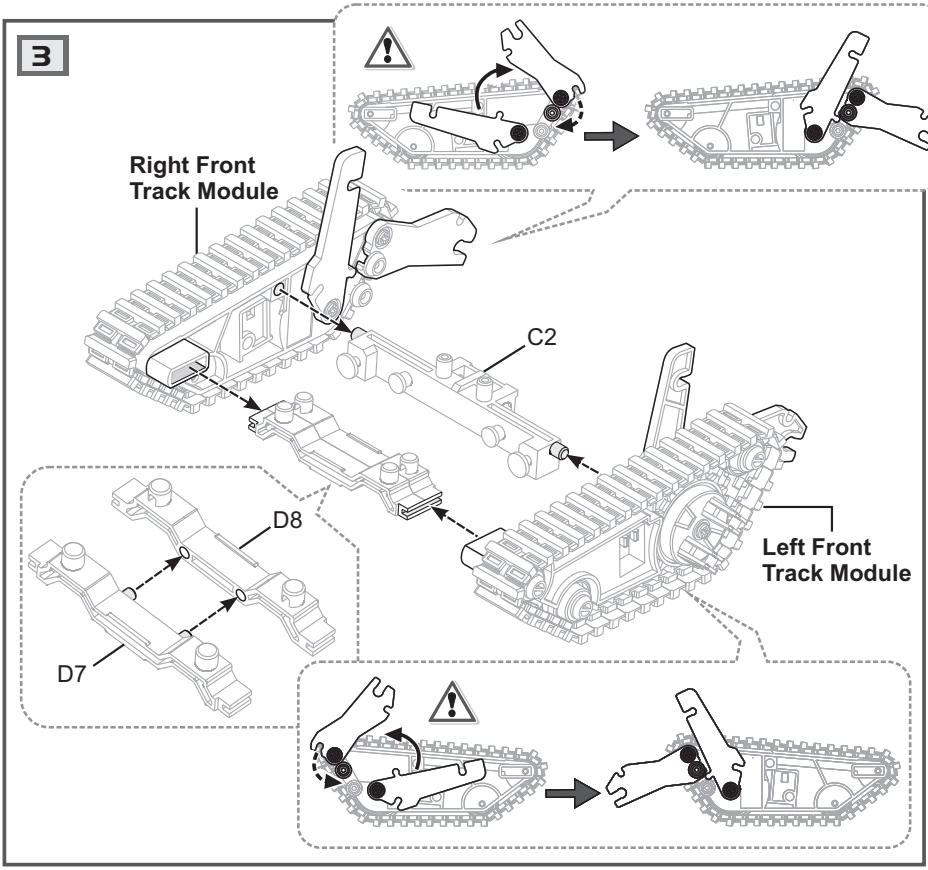


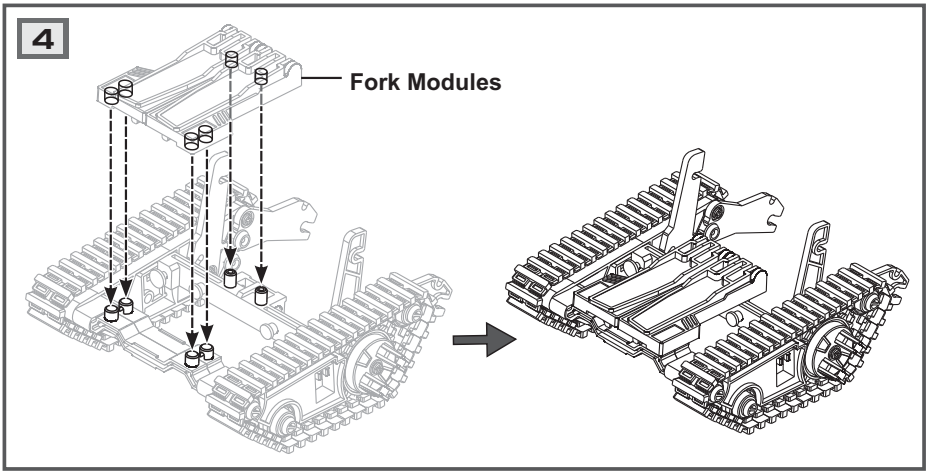
1



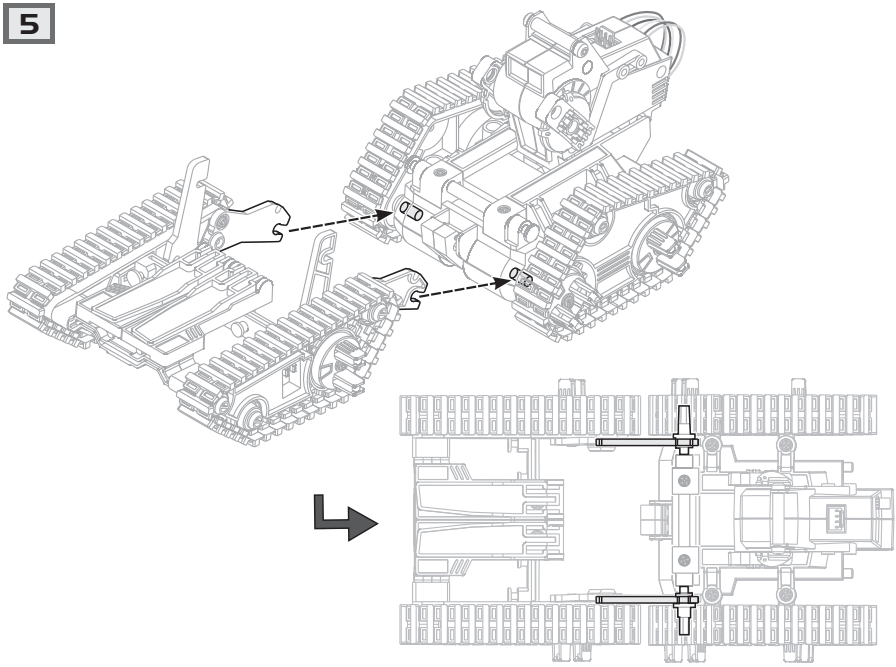
2



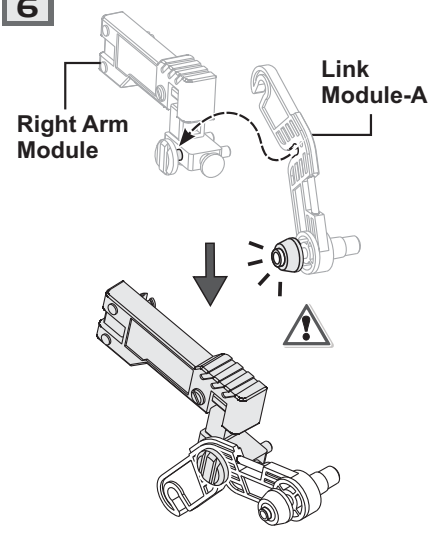

3
Right Front
Track Module
C2
D8
D7
Left Front
Track Module


4
Fork Modules

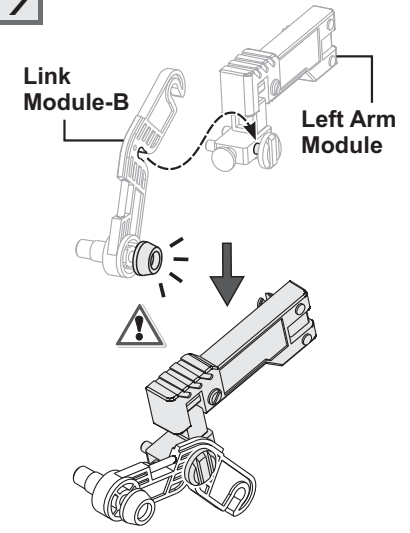
5



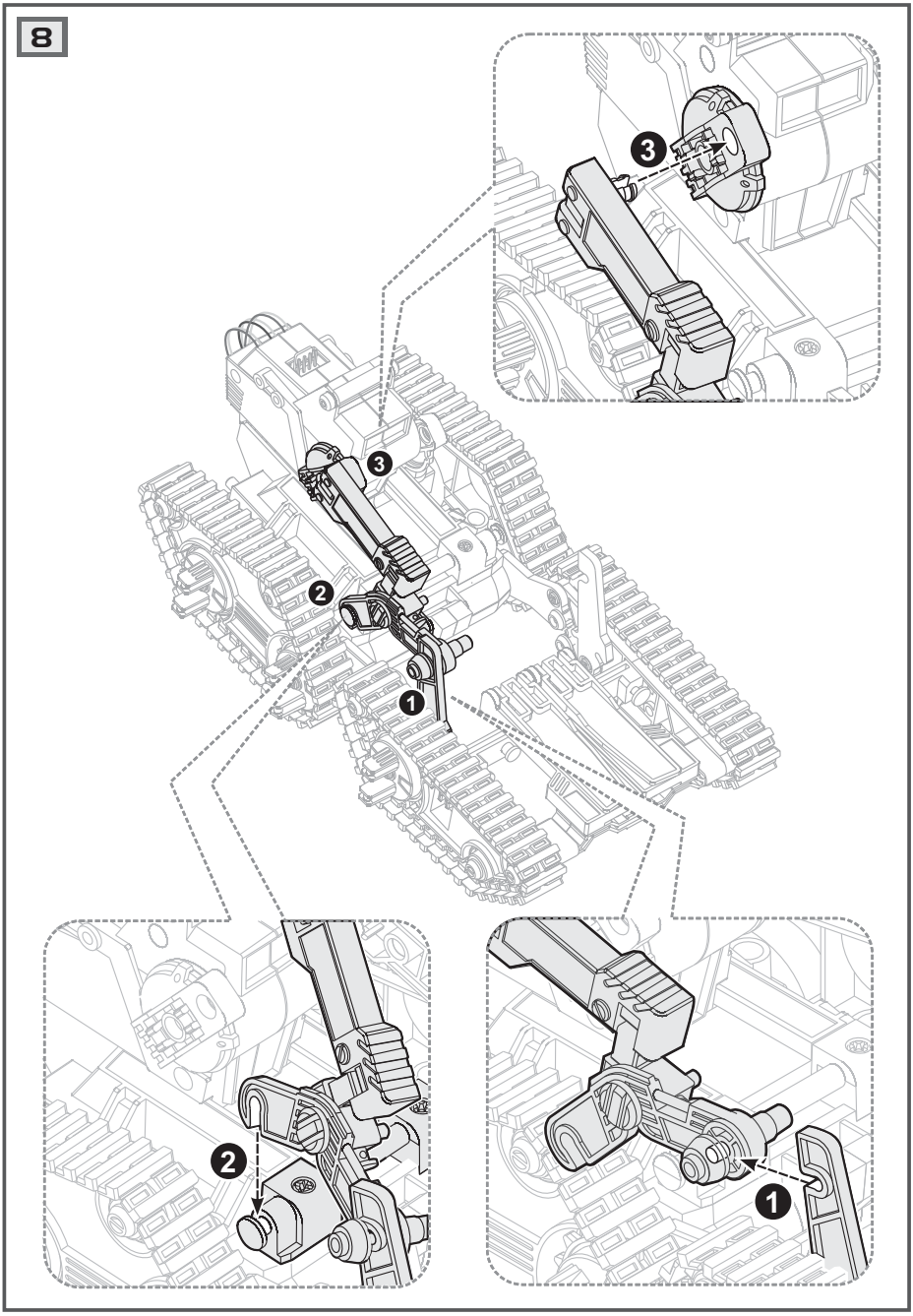
6

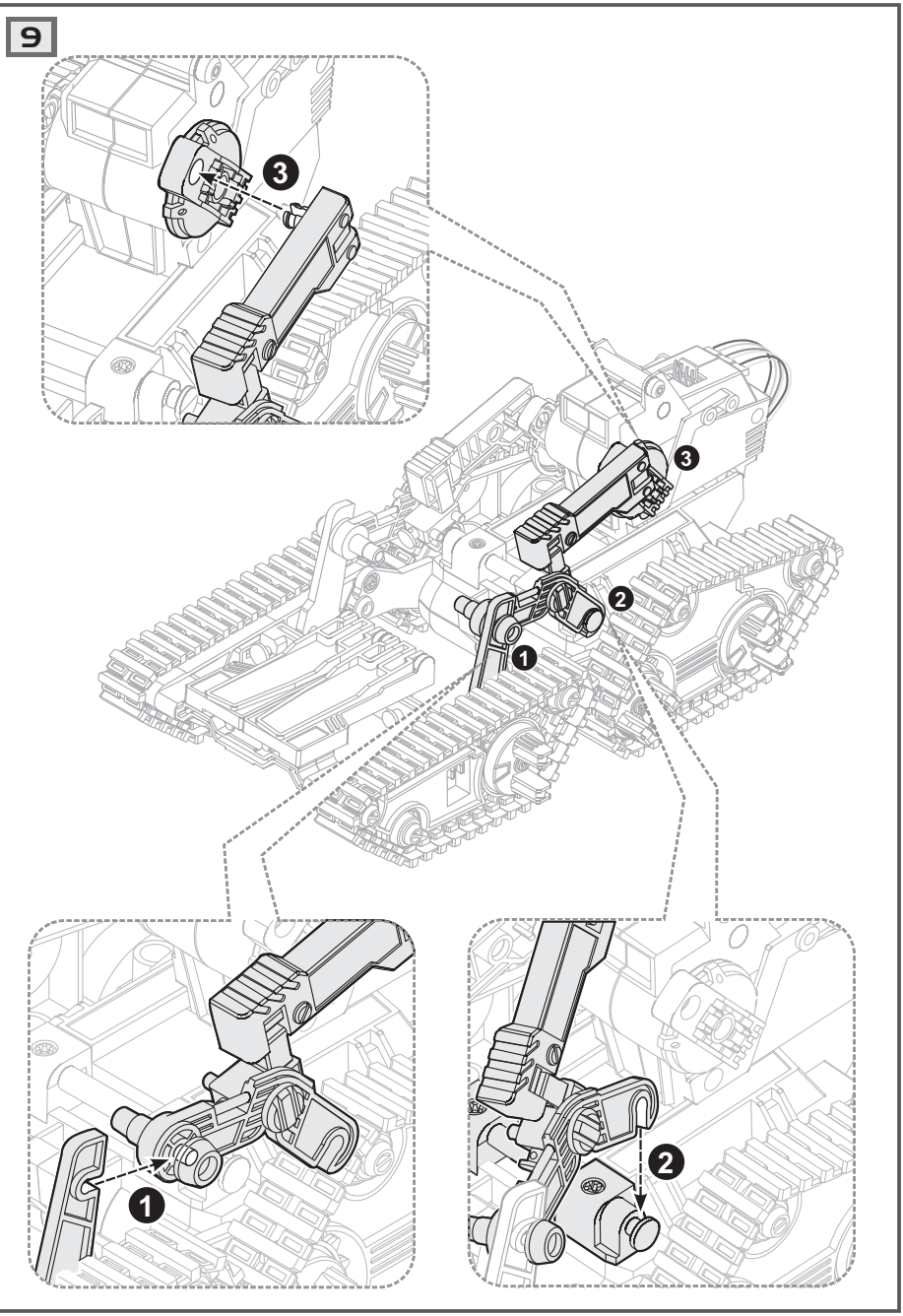


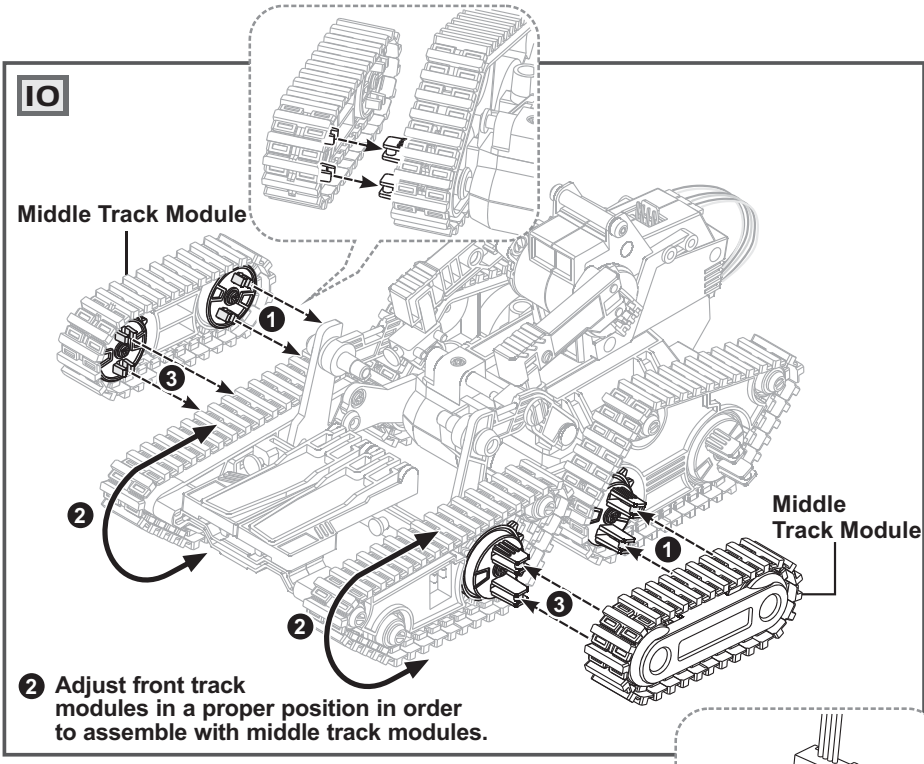
7

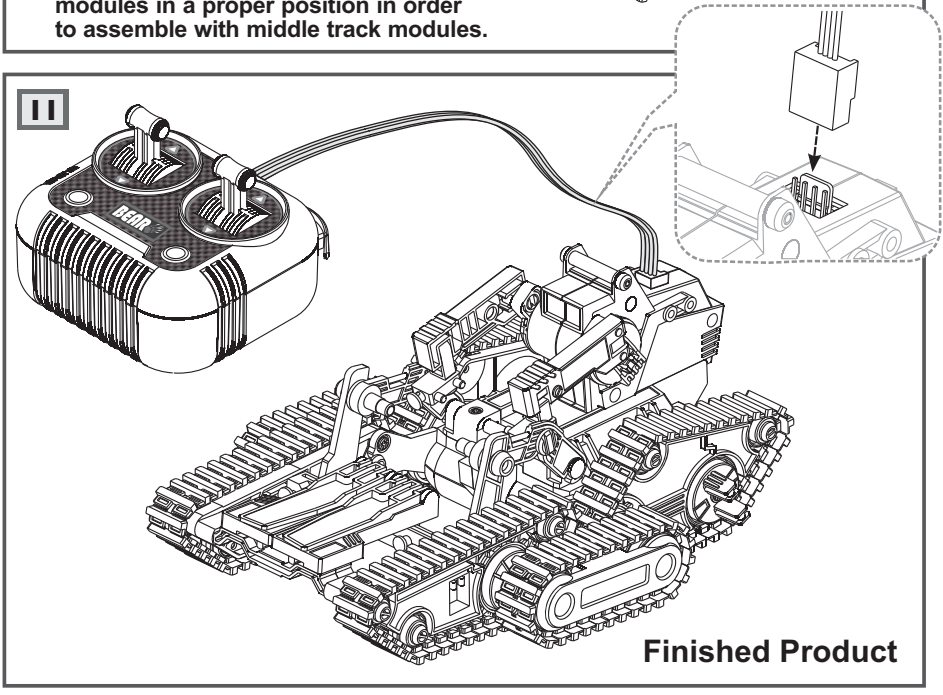


Don't reverse Link Module-A and Line Module-B.

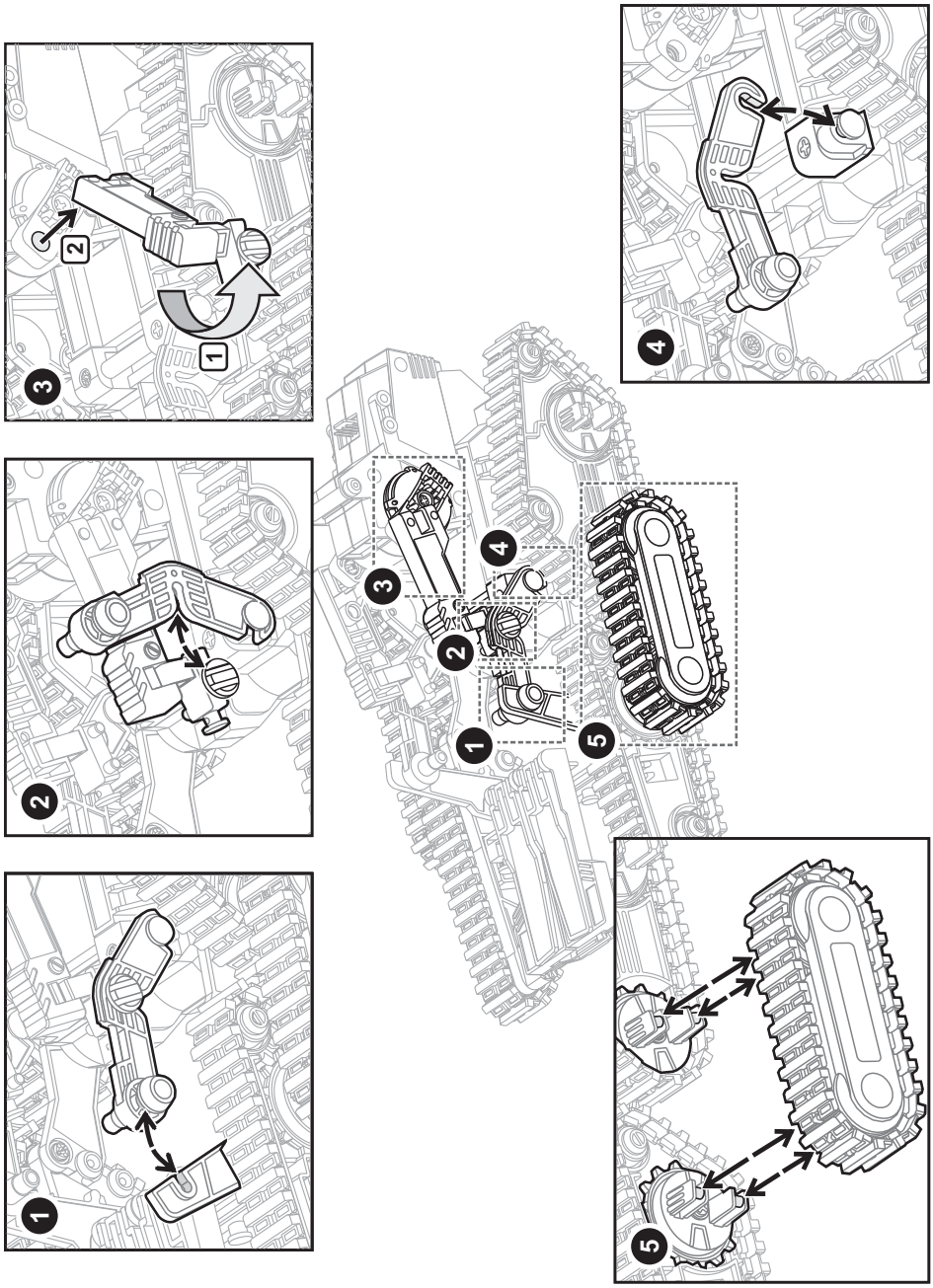

8
3
3
2
1
2
1

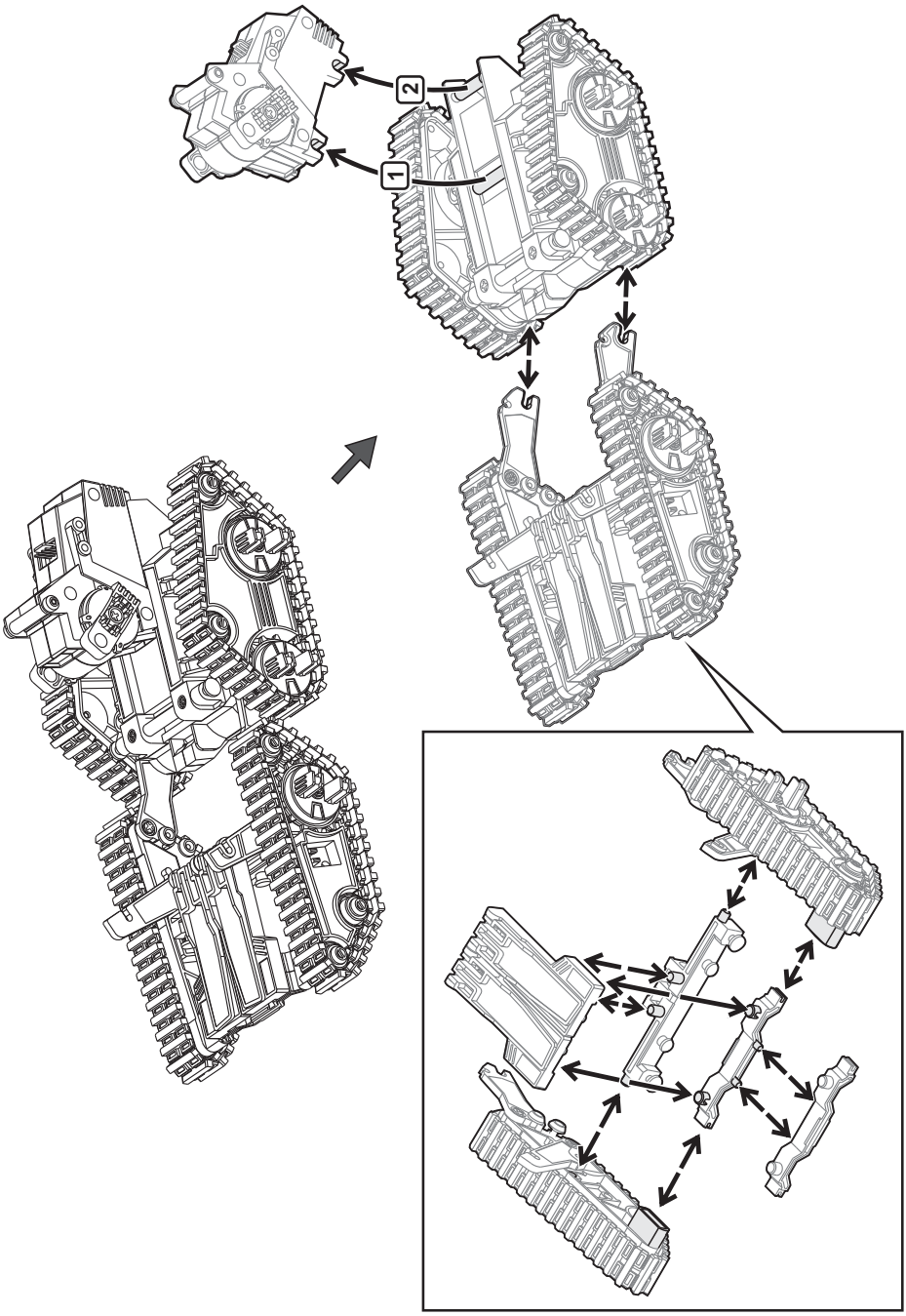

9
3
3
2
1
1
2


10
Middle Track Module
1
3
2
2
Middle
Track Module
1
3
2 Adjust front track modules in a proper position in order to assemble with middle track modules.


11
BEAR
Finished Product

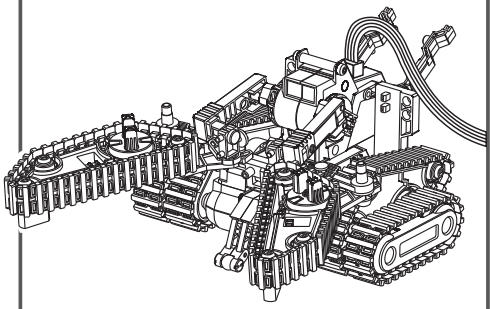
Tips : Disassemble The Rover Robot



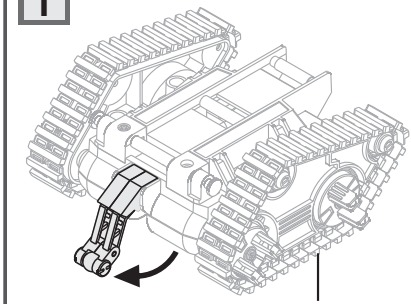

2
1

How To Assemble Gripper Robot:

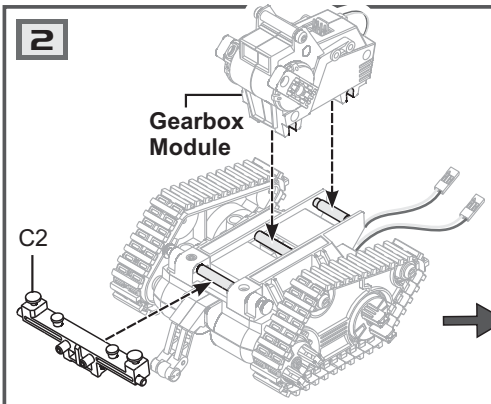
Finished Product

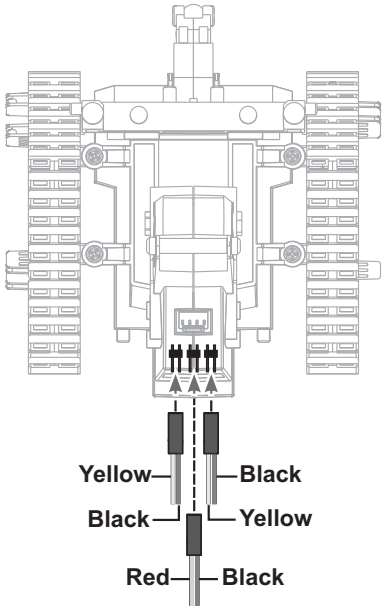


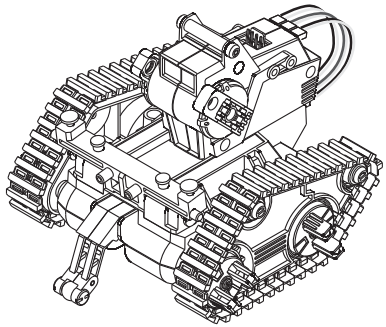
1

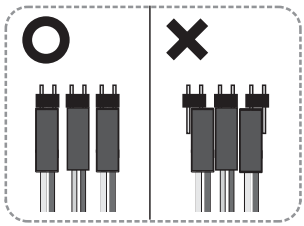


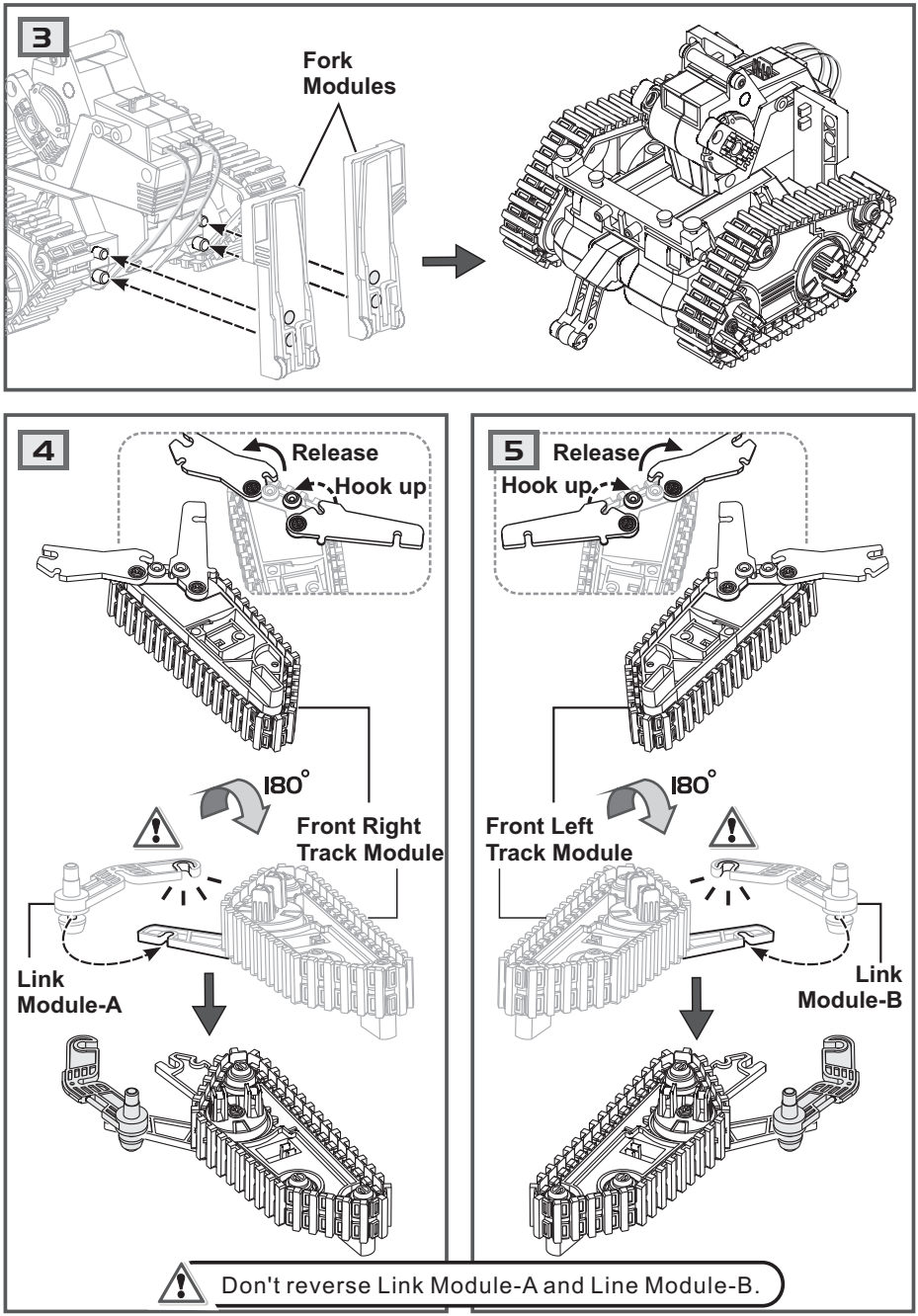
2



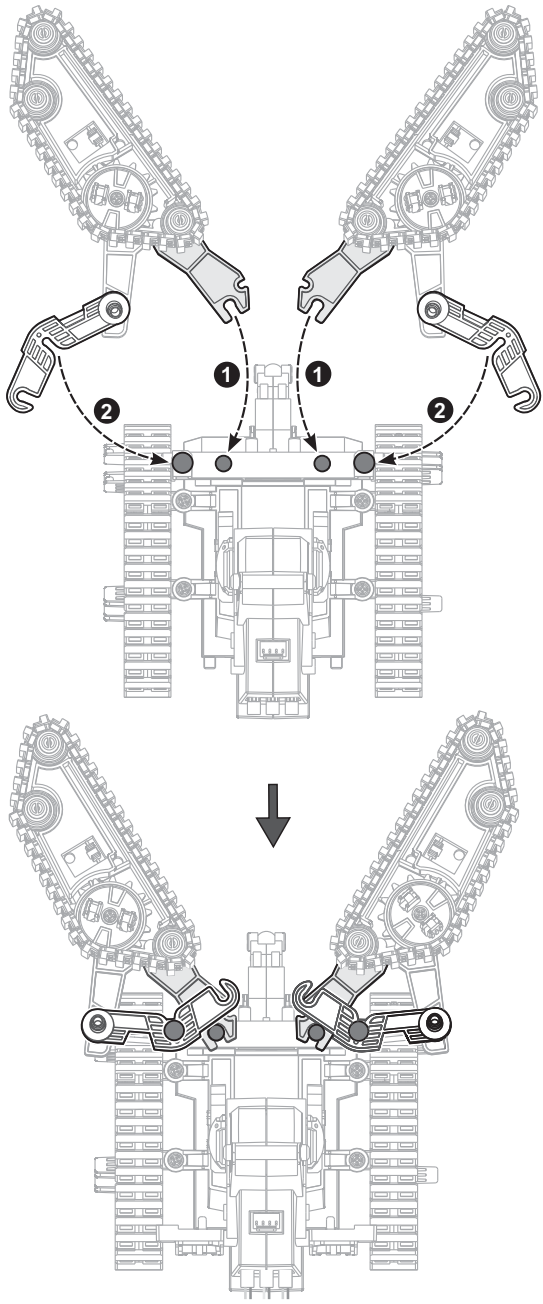






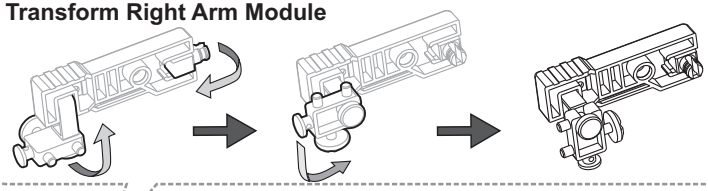

3
Fork
Modules
4
Release
Hook up
180°
Front Right
Track Module
Link
Module-A
5
Release
Hook up
180°
Front Left
Track Module
Link
Module-B
Don't reverse Link Module-A and Line Module-B.

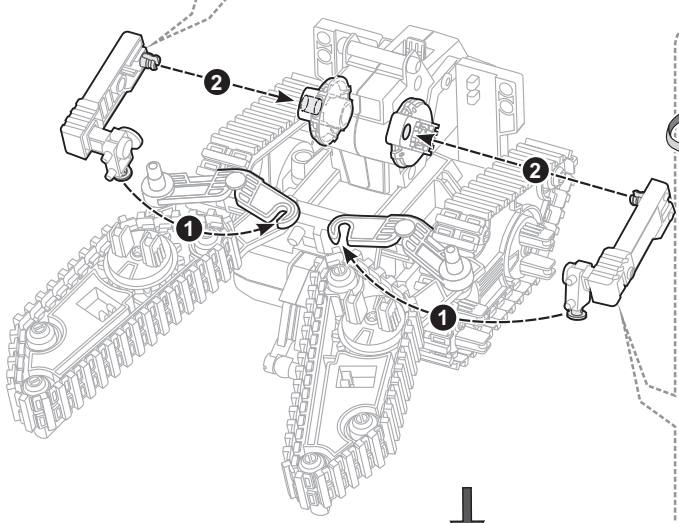
6



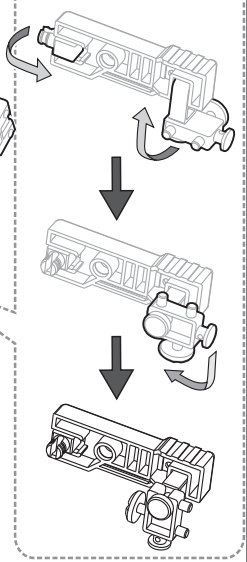
7

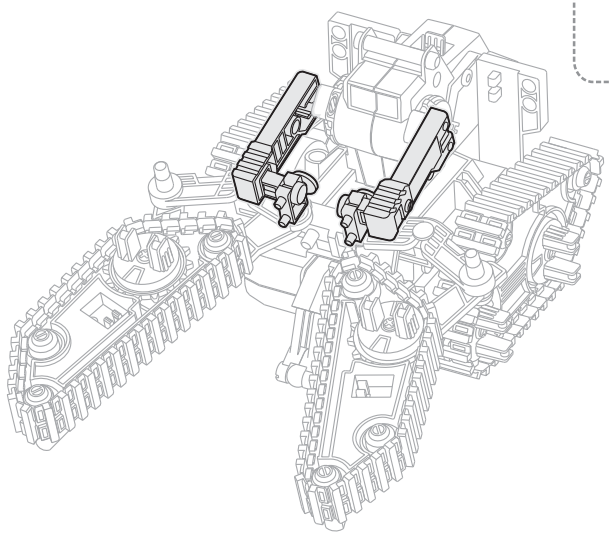
Transform Right Arm Module





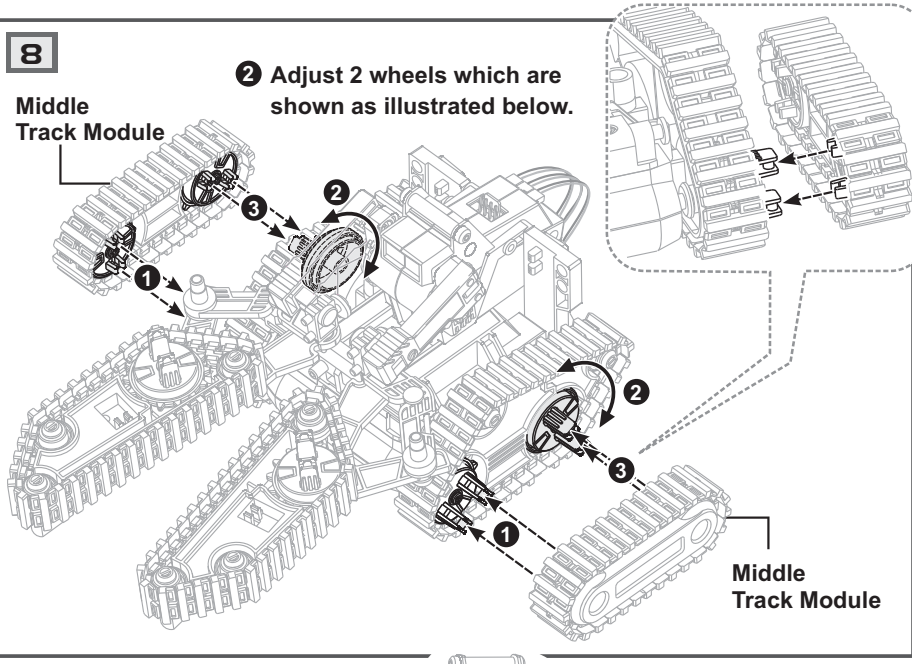
Transform Left Arm Module



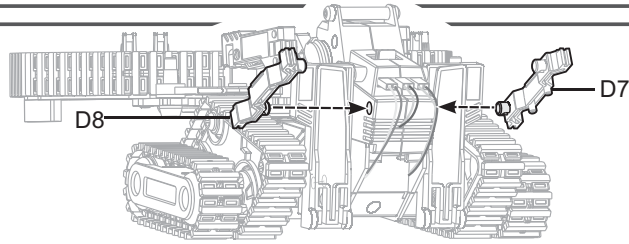


8

❷ Adjust 2 wheels which are shown as illustrated below.



9



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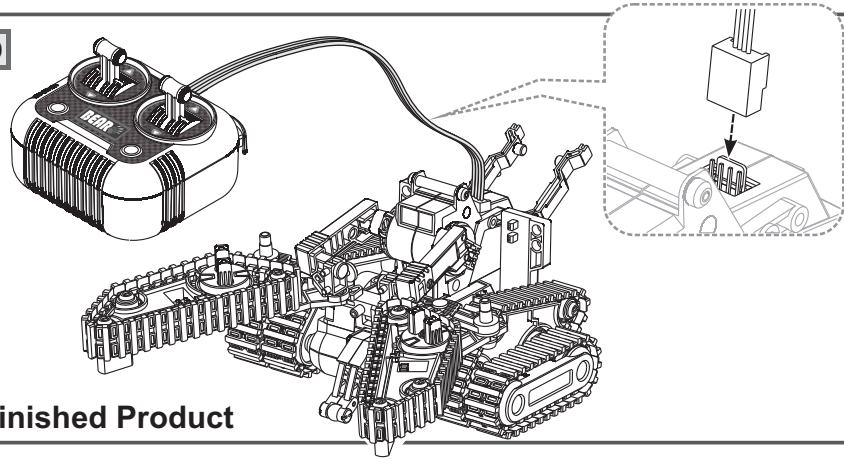
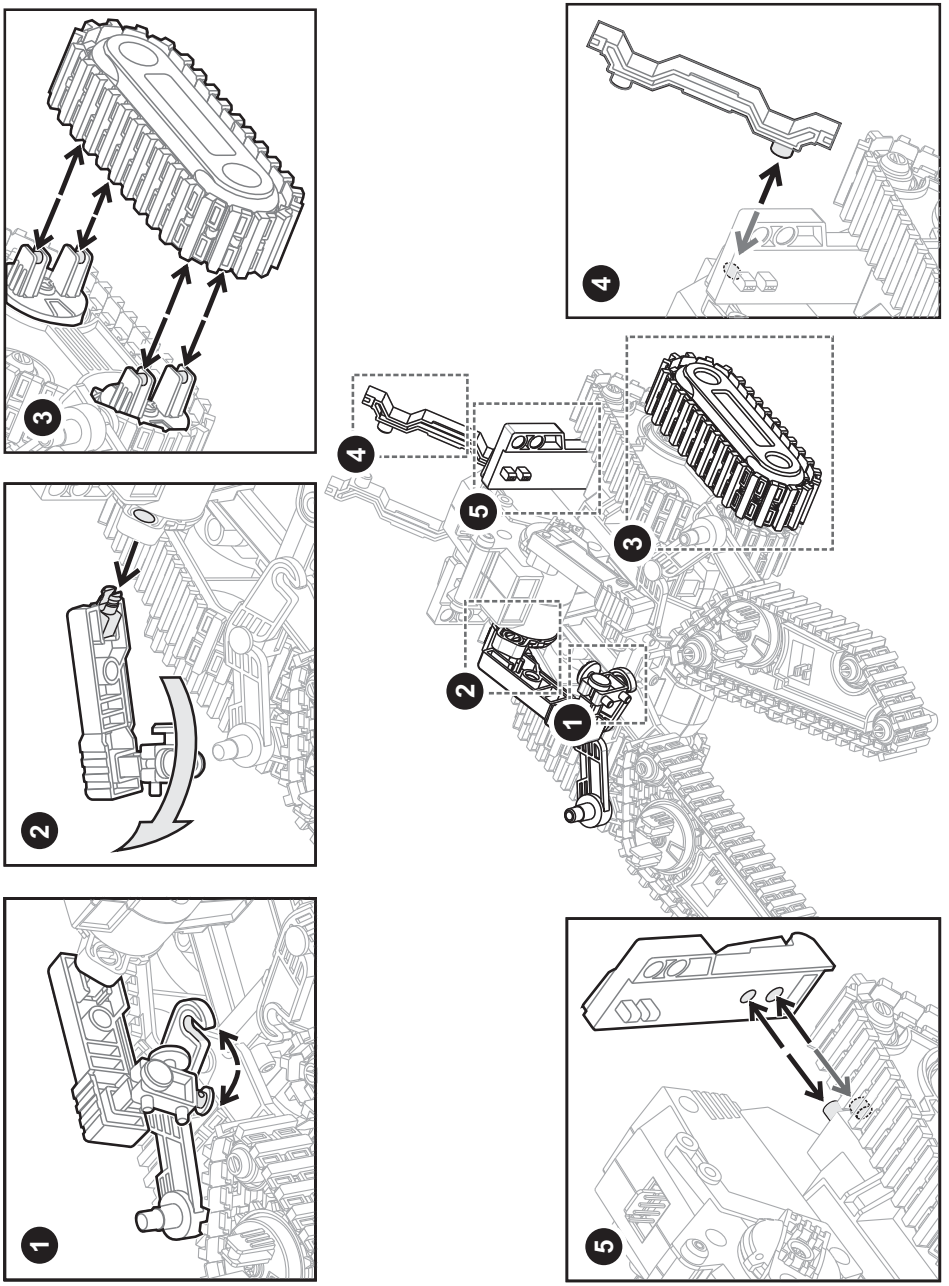
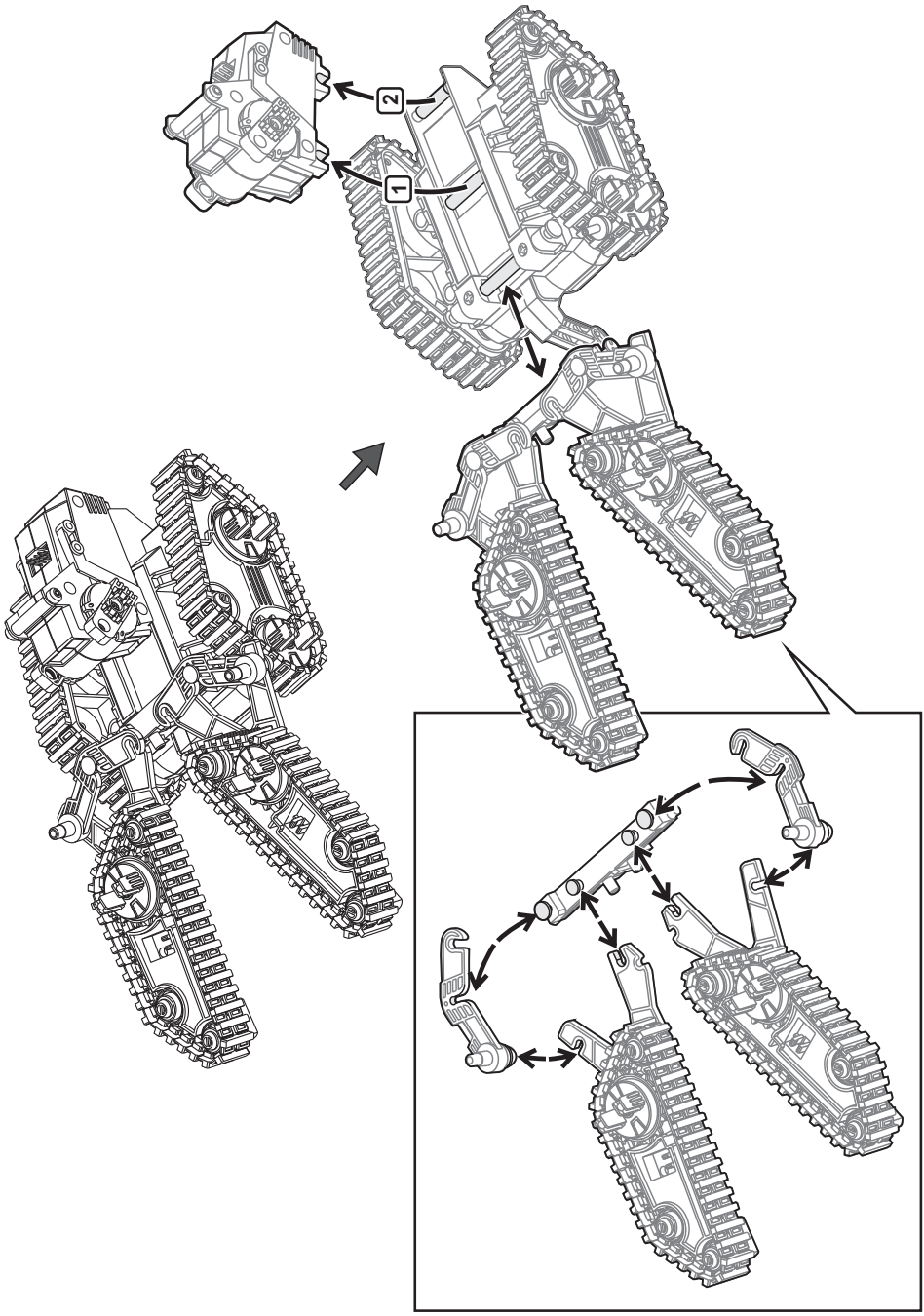


Finished Product

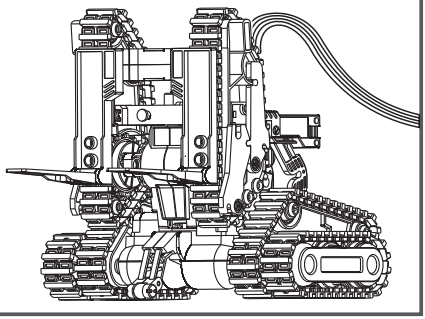
Tips : Disassemble The Gripper Robot



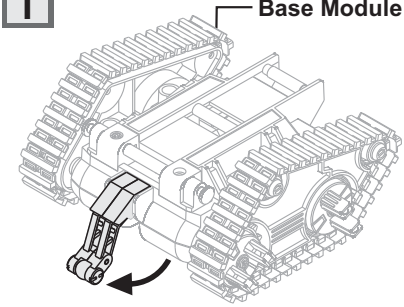

2
1

How To Assemble Forklift Robot:

Finished Product

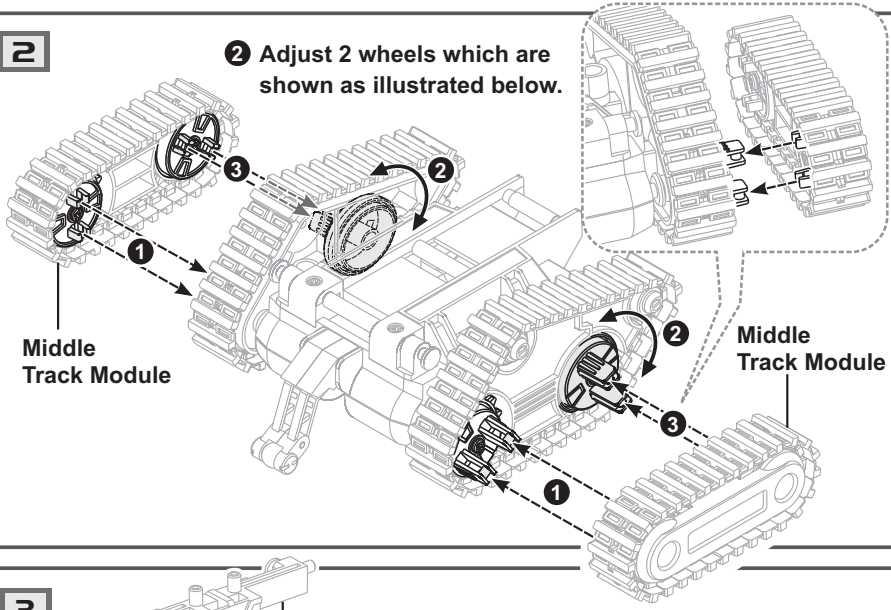


1

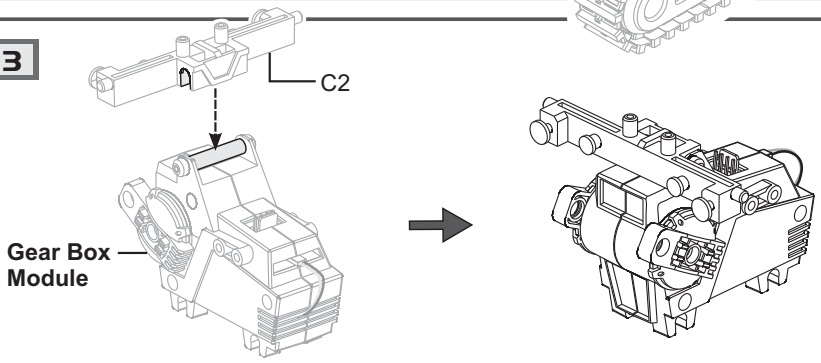


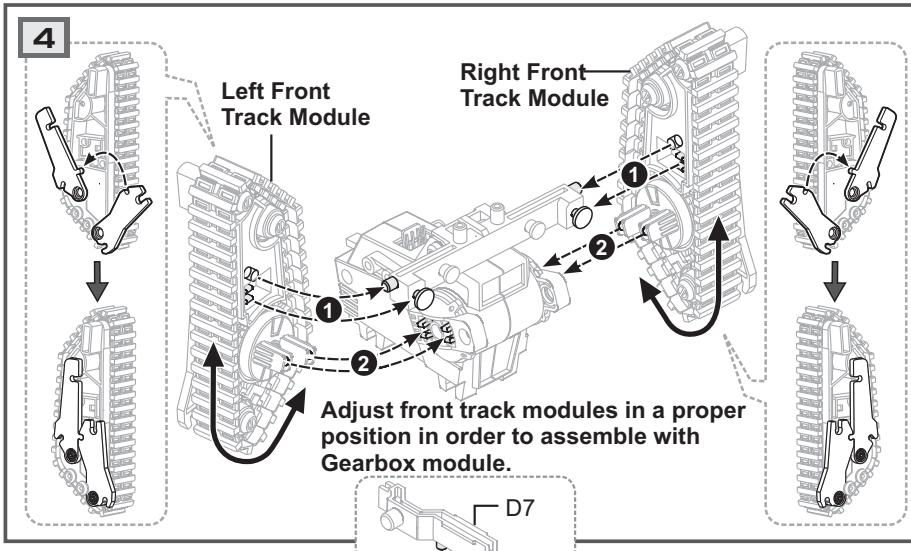
2

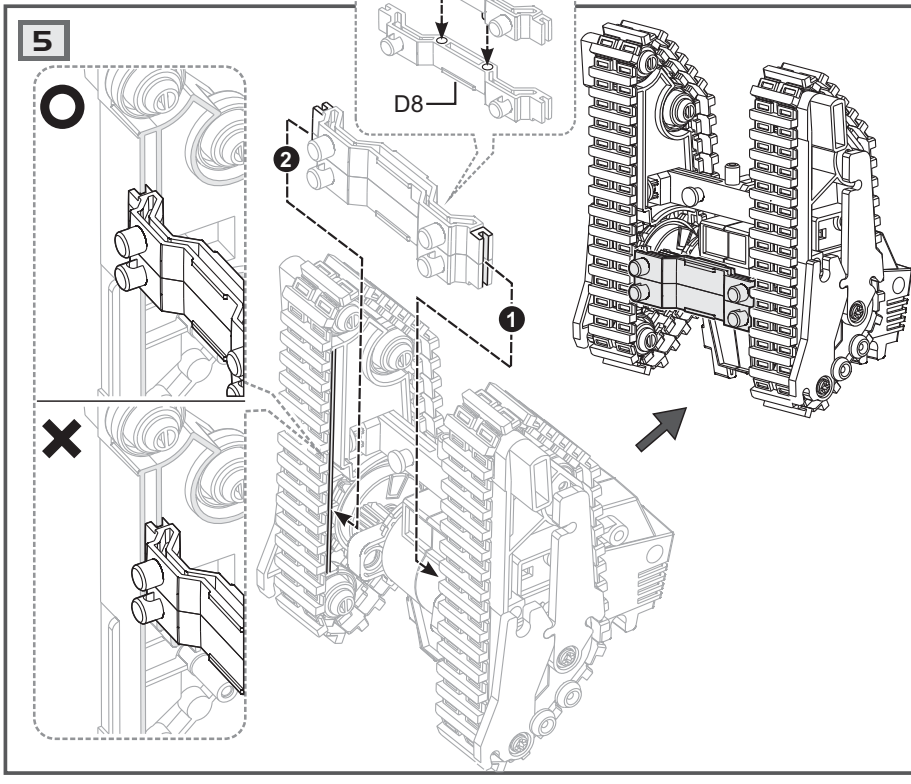
❷ Adjust 2 wheels which are shown as illustrated below.

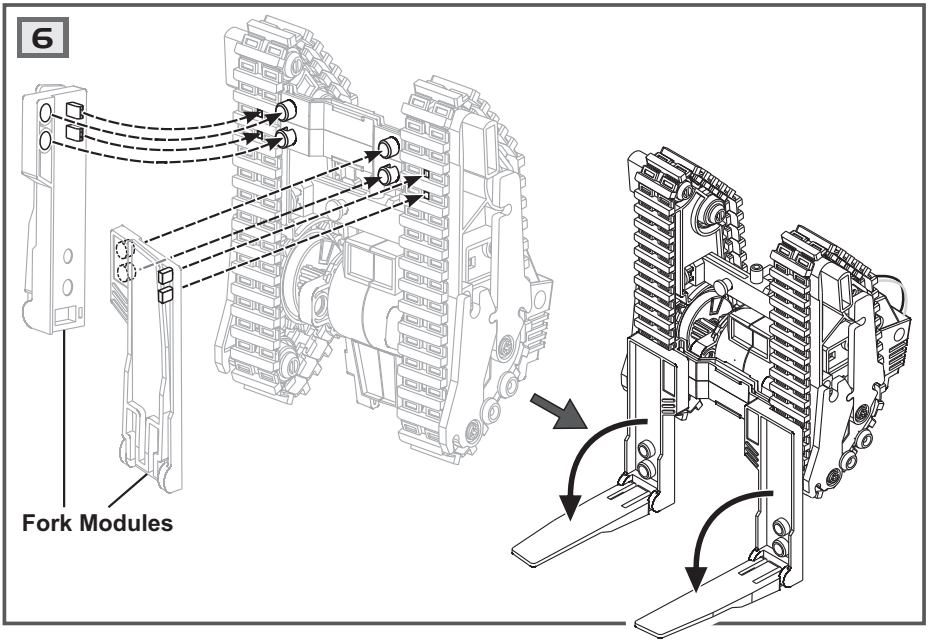


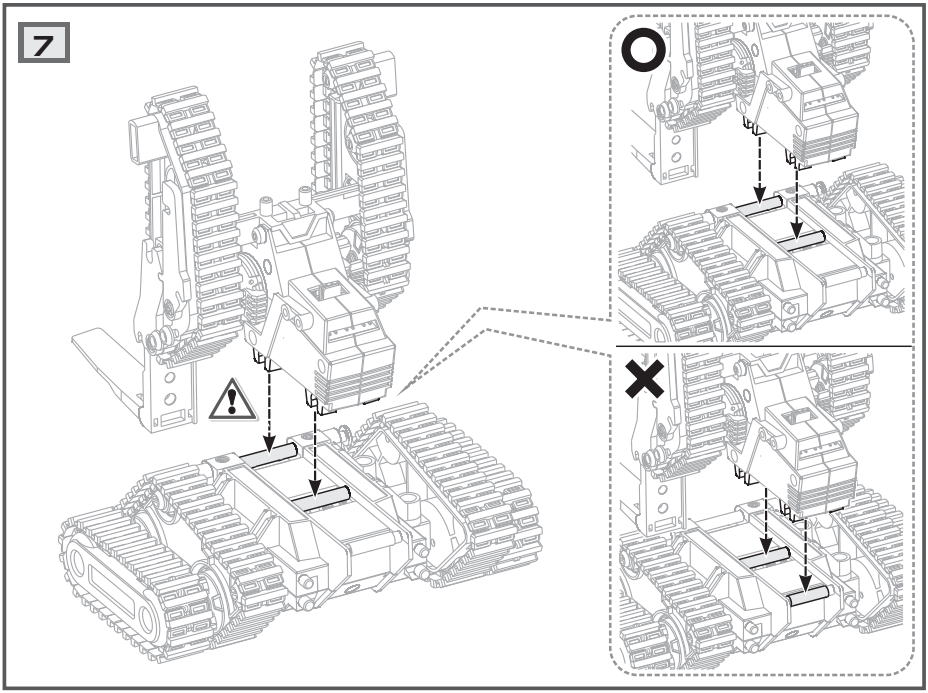
3



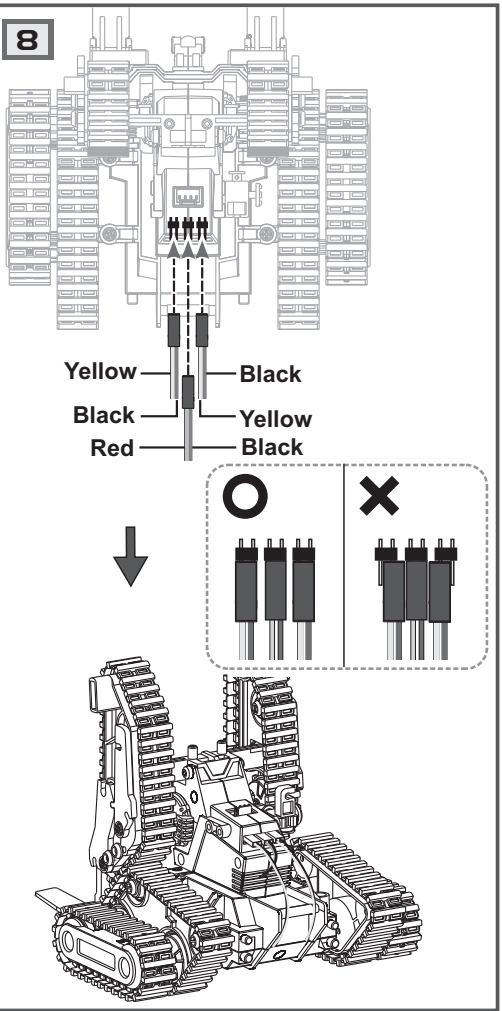

4
Left Front
Track Module
Right Front
Track Module
1
2
1
2
Adjust front track modules in a proper
position in order to assemble with
Gearbox module.


5
D7
D8
2
1

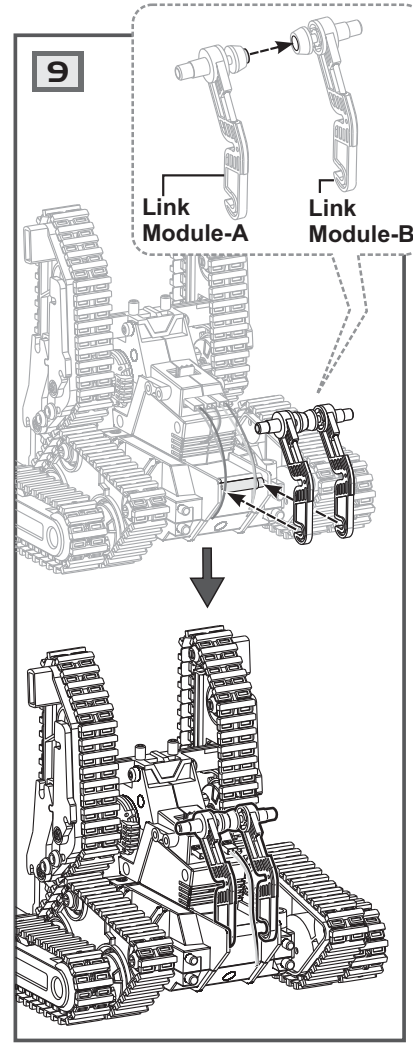

6
Fork Modules


7

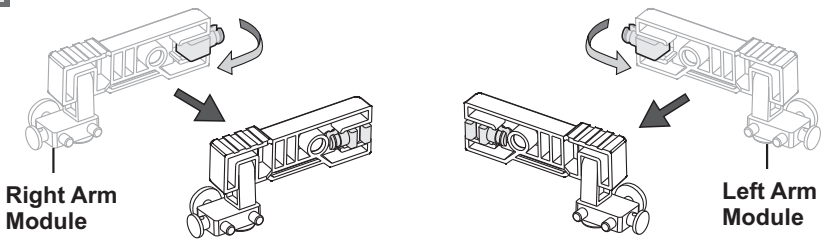
8



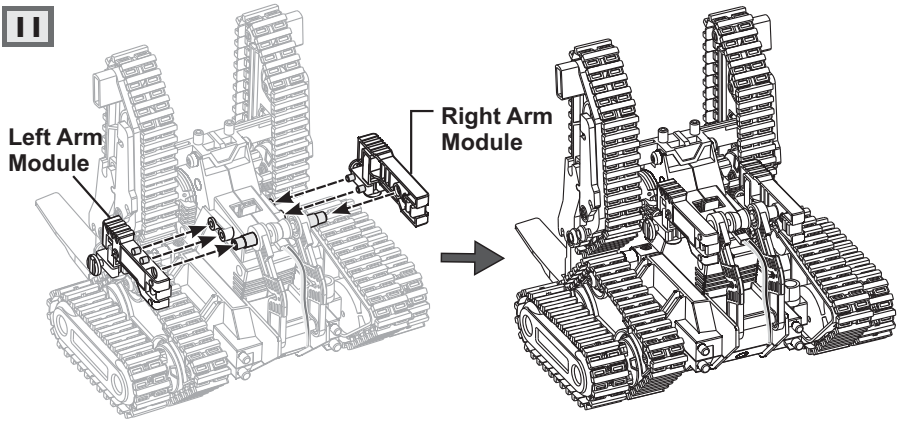
9



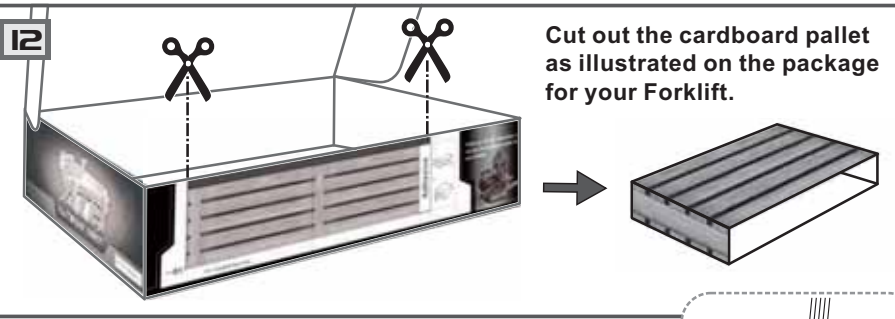
10 **Transform 2 Arm Modules**



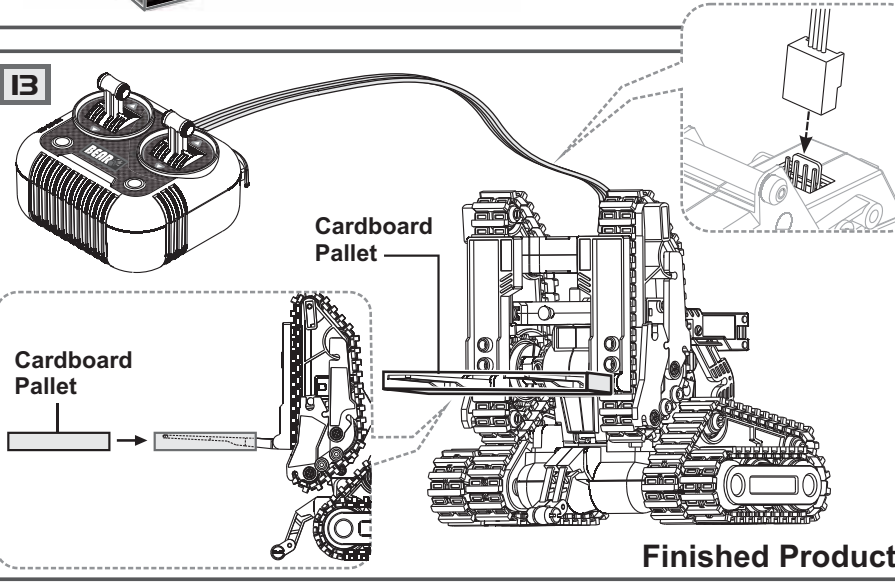
11


Left Arm Module
Right Arm Module

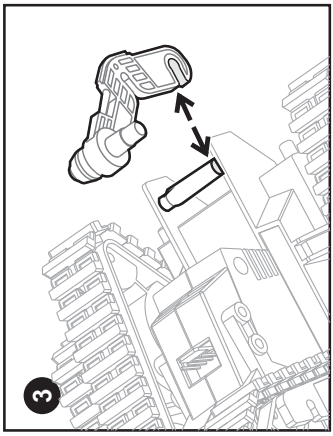
12

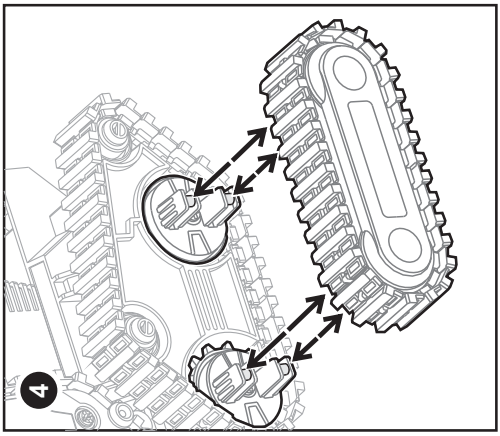

Cut out the cardboard pallet as illustrated on the package for your Forklift.

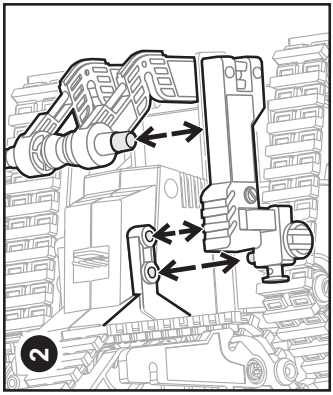
13

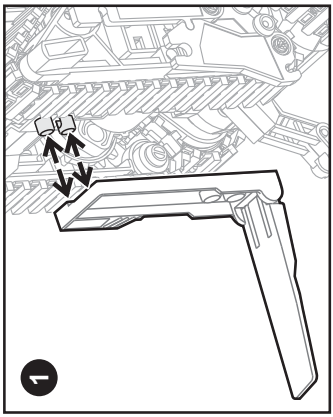

Cardboard Pallet
Cardboard Pallet
Finished Product

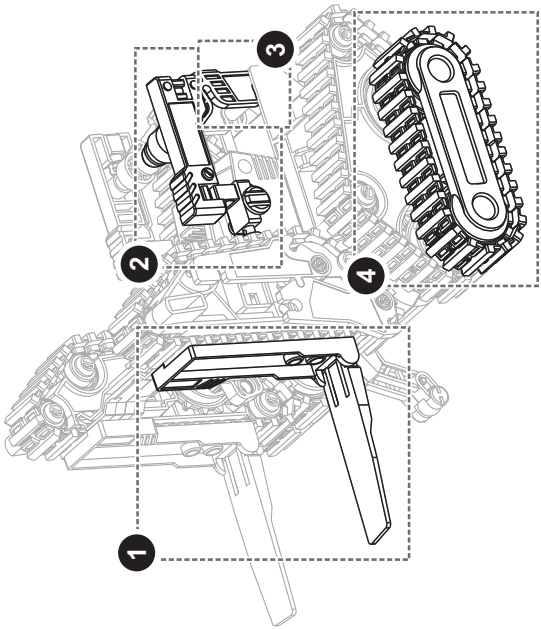
Tips:Disassemble The Forklift Robot:

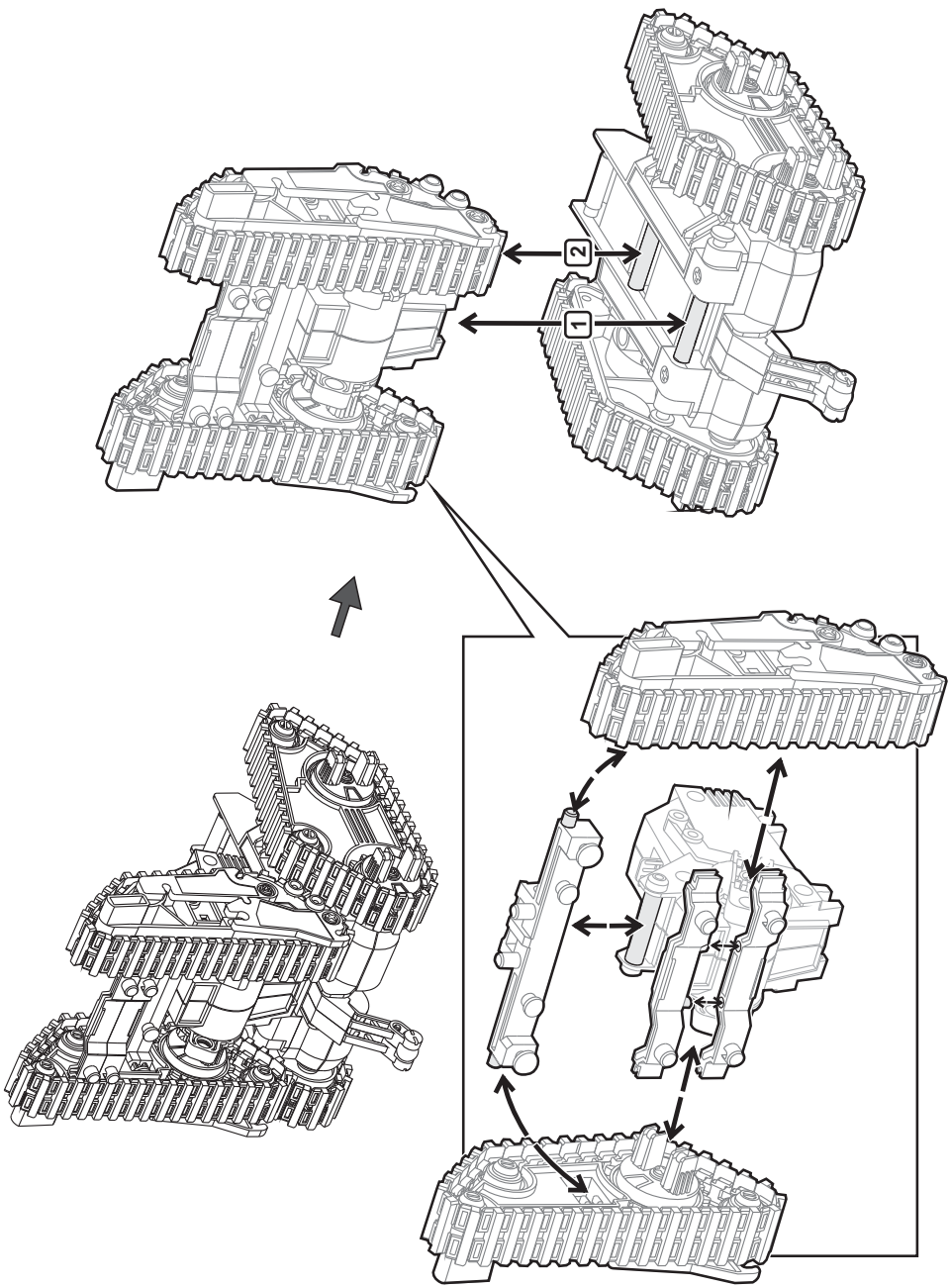








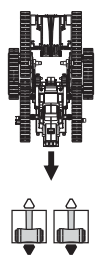
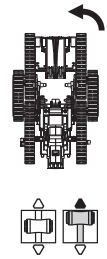
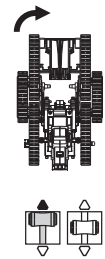
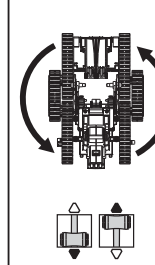
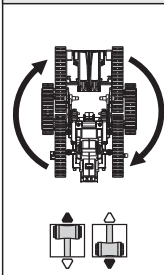
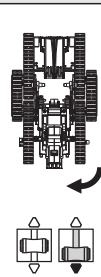
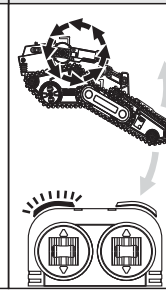
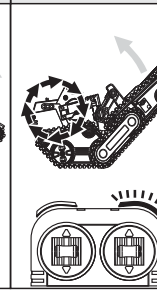



2
1

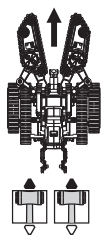
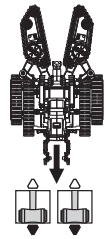
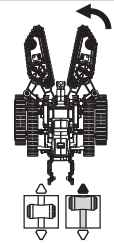
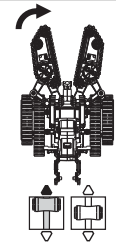
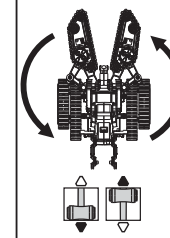
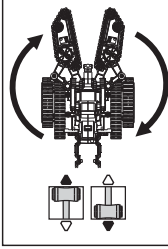
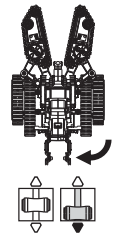
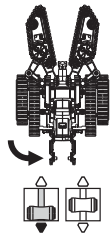
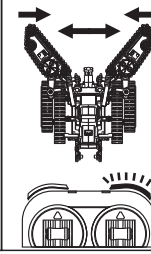
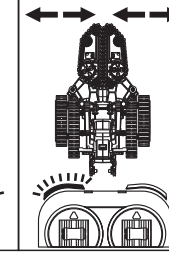
HOW IT WORKS

1.Push any lever on the wired controller to start operation.
2.Each robot has 10 different movements as shown below:

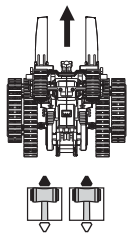
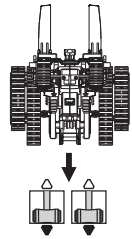
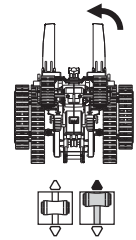
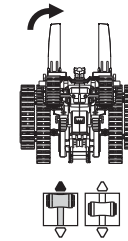
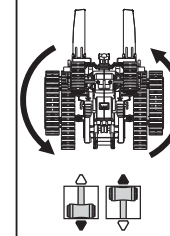
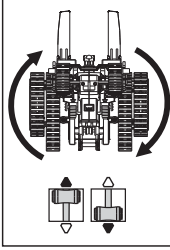
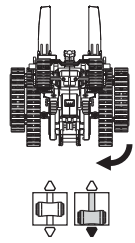
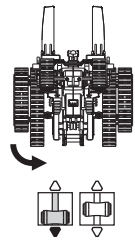
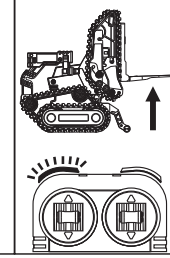
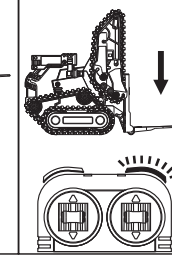
ROVER ROBOT

Forward	Backward	Left turn	Right turn	360° left turn around
				
360° right turn around	**Back left turn**	**Back right turn**	**Up / Down**	**Down / Up**
				

GRIPPER ROBOT

Forward	Backward	Left turn	Right turn	360˚ left turn around
				
360˚ right turn around	**Back left turn**	**Back right turn**	**Open / Close**	**Close / Open**
				

FORKLIFT ROBOT

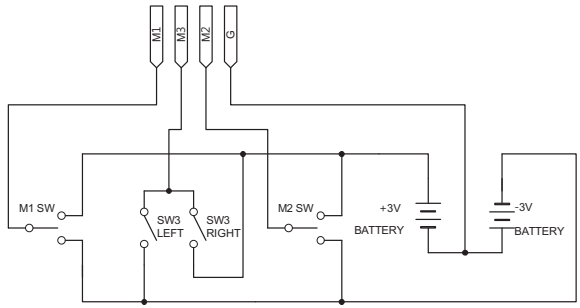
Forward	Backward	Left turn	Right turn	360˚ left turn around
				
360˚ right turn around	**Back left turn**	**Back right turn**	**Up**	**Down**
				

3.The Gearbox Module equipped with safety gear, when user pushs the lever over its maximum position, gearbox will make "da, da, da" sound.
4.To extend the life of gearbox, release the buttons once you hear the safety gear emit "da, da, da" sound.

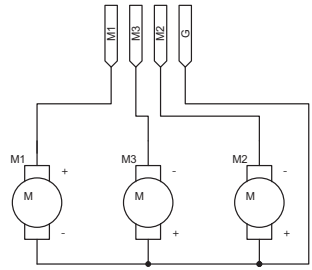
TROUBLE SHOOTING

1.Ensure all wirings are correct. (please refer page 25, 33, 43)
2.If ATR does not have any response to the wired controller, please check if batteries are placed in correct polarity. (please refer page 2)
Also make sure the connector of battery compartment plug to PC board no problem. (please refer page 4)
3.If ATR moves wrong direction, please check page 25,33,43.

CIRCUIT DIAGRAM



Wired Control Box



ATR

ROVER
ROBOT

GRIPPER
ROBOT

FORKLIFT
ROBOT

⚠ WARNING :
CHOKING HAZARD
Small parts
Not for children under 3 years

- Removal and replacement of batteries should be carried out by an adult or under adult supervision.
- Do not attempt to recharge non-rechargeable batteries. Rechargeable batteries must be removed from the toy before recharging.
- Avoid short circuiting the contacts in the battery compartment or the battery terminals.
- Remove exhausted batteries from the product to avoid leakage.
- Do not mix used batteries and new batteries or batteries of different types.
- Use of rechargeable batteries or mercury oxide batteries are not recommended for this product.

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